

BI-WEEKLY PROGRESS REPORT NO. 9

**OLD ROOSEVELT FIELD CONTAMINATED GROUNDWATER AREA SITE
REMEDIAL ACTION - PHASE 1, WELL INSTALLATION
GARDEN CITY, NASSAU COUNTY, NEW YORK**

Prepared for:
U.S. Environmental Protection Agency
290 Broadway
New York, New York 10007-1866

Prepared by:
CDM Federal Programs Corporation
125 Maiden Lane - 5th Floor
New York, New York 10038

EPA Work Assignment No.	: 023-RARA-02PE
EPA Region	: 2
Contract No.	: EP-W-09-002
CDM Federal Programs Corporation	
Document No.	: 3320-023-00566
Prepared by	: CDM
Site Manager	: Mr. Thomas Mathew, P.E.
Telephone Number	: 732-590-4638
EPA Remedial Project Manager	: Ms. Caroline Kwan
Telephone Number	: 212-637-4275
Date Prepared	: September 27, 2010

Bi-Weekly Progress Report No. 9

Phase 1 – Wells Installation

1.0 Introduction

Pursuant of the Work Assignment Form (WAF) Statement of Work (SOW), for Region 2 Contract EP-W-09-002 Work Assignment 023-RARA-02PE, CDM Federal Programs Corporation (CDM) is performing the Phase 1 (Wells Installation) Remedial Action (RA) at the Old Roosevelt Contaminated Groundwater Area Site. The Bi-Weekly Progress Report is intended to partially fulfill the requirements specified under WAF SOW for this assignment. This Bi-Weekly report is prepared for the work performed from August 23 to September 3, 2010.

The primary responsibility of the project geologist was to oversee the well development and testing activities to ensure that the work meets all requirements of the final Remedial Design specifications and is performed by the Subcontractor in accordance with all applicable quality assurance, health and safety, and regulatory requirements.

The work performed during this reporting period includes: the development of extraction wells, EW-1D, EW-1I, and EW-1S; installation of transducers into selected ports of SVP-2, SVP-3, SVP-4, SVP-5, SVP-9, and SVP-10; step testing of extraction wells EW-1D, EW-1I, and EW-1S, and sampling for chemical testing after well development and during step testing. This work is summarized in further detail below. A list of the supporting documentation attached with this bi-weekly progress report is as follows:

- Attachment 1 - CDM's Daily Status Report
- Attachment 2 - CDM's Field Log Book Notes
- Attachment 3 - Chain of Custody
- Attachment 4 - Well Development Log
- Attachment 5 - Photo Log
- Attachment 6 - Field Change Request (FCR)

2.0 Personnel On-Site

The following personnel were on site during this reporting period:

CDM - Contractor

Frank Robinson	Project Geologist
Sean O'Hare	Project Scientist
Thomas Mathew	Site Manager
Mike Ehnot	Project Geologist
John Dougherty	Project Geologist

Uni-Tech - Driller

Butch Hitzelberger	Head Driller
Brad Barnes	Driller
Sean O'Rourke	Driller

Intex – Temporary Water Treatment System

Todd Daniel

Westbay

Andy Bessant
Dennis Oertel

Earth Data

George Seidman

Seacoast

Gene Streiter

Network Environmental Solutions

Ken Lippay
Mark Kumorek

Freehold Carting

Alfonso Trocchio

3.0 Summary of Work Performed

The following is a brief summary of the field activities performed during this reporting period (refer to Attachments 1, 2, 3 and 4 for Daily Status Report, log book notes, well development log and photo log, respectively for each working day):

- Site Mobilization
 - Unitech decontaminated and demobilized equipment associated with drilling activities from the site. The extraction well area was cleaned.
 - Dougherty and Thomas visited the infiltration basin, met with two Nassau County personnel, inspected the main inlet to the basin and put a lock on the gate to allow CDM to access the basin.
- Transducer Installation
 - CDM, Westbay, and Earth Data installed transducer strings in wells SVP-5 and SVP-10. Both strings consisted of 5 transducers. In both wells transducers were installed in Ports 1, 3, 5, 8, 10. The MOSDAX/MAGI data recorder, communications cables, and 12 volt battery were secured inside the aluminum cabinets. Data collection at the rate of one reading per minute was started at each location.
 - A transducer was installed in Port 2 of SVP-11. Data collection was started at the rate of one reading per 10 minutes.
 - CDM and Earth Data installed individual transducers in wells SVP-2 (Port 4), SVP-3 (Port 3), SVP-4 (Port 6), and SVP-9 (Port 5). Data collection at the rate of one reading every 10 minutes was started at each location.
- Development of Extraction Wells EW-1S, EW-1I, and EW-1D
 - Uni-Tech completed the development of extraction wells (EW-1S, EW-1I, EW-1D) on August 23 and 24, 2010. Extraction well development procedures are detailed in the log book. During well development, CDM collected water level measurements at

- approximately 30 minute intervals initially and then at 15 to 20 minutes interval.
- The sand test was performed on each extraction well. Each well passed the sand test criteria of less than 5 mg/L of sand. One pint of well water was collected into a jar after the sand testing was complete.
 - After the sand testing was completed, the extraction well development process was considered complete and samples were collected from each well. The samples were sent to EPA DESA laboratory for TCL VOCs, total iron and manganese, filtered iron and manganese analyses.
- Set-up and Preliminary Testing for Step Test and Aquifer Test
- CDM and Uni-Tech inspected Garden City wells GWP-10 and GWP-11 and determined how to install a water level indicator in each well. It was determined that the airline at well GWP-11 is working and therefore, water level data from this unit will be used during the test. The air line at GWP-10 does not appear to be working so a water level indicator will be used in that well.
 - CDM, Westbay, and Earth Data verified the data download process from the transducer strings in SVP-5 and SVP-10.
 - CDM completed a round of synoptic water level measurements at the following wells: SVP-2, SVP-3, SVP-4, SVP-9, SVP-11, MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, MW-3I, GWX-10019, GWX-10020, EW-1S, EW-1I, EW-1D, GWP-10, and GWP-11. Data was downloaded from the transducers in the following wells: SVP-2, SVP-3, SVP-4, SVP-9, SVP-11, MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, MW-3I, GWX-10019, GWX-10020, EW-1S, EW-1I, EW-1D.
- Step Testing of EW-1S
- The step test was conducted at well EW-1S. Flow rates were 40, 60, 75, and 90 gpm. Each step was 2 hours long.
 - At the conclusion of the step test, samples EW-1S/S (total Fe and Mn, VOCs) and EW-1S/S-F (filtered Fe and Mn) was collected and shipped to EPA DESA laboratory for analysis.
- Step Testing of EW-1I
- The step test was conducted at well EW-1I. Flow rates were 40, 60, 75, and 90 gpm. Each step was 2 hours long.
 - At the conclusion of the step test, samples EW-1I/S (total Fe and Mn, VOCs) and EW-1I/S-F (filtered Fe and Mn) was collected and shipped to EPA DESA laboratory for analysis.
- Step Testing of EW-1D
- The step test on well EW-1D was completed. Flow rates were 60, 100, 140, and 180 gpm. Each step was two hours long.
 - Samples EW-1D/S (VOC and total Fe and Mn) and EW-1D/S-F (filtered Mn and Fe) were collected at the end of the step test and shipped to the EPA DESA laboratory for analysis.

- **Miscellaneous**
 - Data was periodically downloaded from the well transducers.
 - Seacoast and NES cleaned out the 21,000 gallon storage tank and 5,000 gallon plastic tank in the staging area. There was about 3 feet of drilling mud left in the bottom of the 21,000 gallon tank before cleaning. NES completed a confined space entry to clean this material out of the tank. The water, drilling mud, and sediment were flushed into a 5,000 gallon vacuum truck provided by Freehold Cartage.
- **Health and Safety**
 - A tailgate H&S meeting was conducted each day before the start of work activities.

4.0 Problems/Corrective Action

The flush mount surface casings for SVP-2 and SVP-4 were retaining surface water runoff from the parking lot. The casings were extended above ground surface using temporary casing to prevent surface water from entering the well while the port is open. Unitech placed sandbags on top of the buckets covering the temporary casings on wells SVP-2 and SVP-4 to keep the buckets in place during any storms.

Communications problems between the MOSDAX boxes and laptop computer were initially experienced. CDM brought a new computer to the site equipped with a serial port. CDM was able to use this computer to communicate successfully with the MOSDAX boxes.

5.0 Deviations

Based on review of the QAPP and discussions during a field planning meeting, changes were identified to the sample collection scheme specified in the QAPP that need to be documented in a field change request. Two changes were documented 1) a “total” sample was added after the QAPP was prepared and 2) the DESA lab recommended dropping MS/MSD analysis on filtered metals and adding it on nitrate/nitrite. The total sample will be collected from the combined flow from all three wells. The FCR was prepared documenting these changes for EPA approval.

6.0 Conclusions

All RA construction work was completed in general accordance with RA Subcontract Documents and approved construction submittals except as noted above.

ATTACHMENT 1
DAILY STATUS REPORT

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-23-10

Day: 77 (Monday)

WEATHER: Overcast, occasional shower

TEMP: 70's, humid

WIND: Strong, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Sean O'Hare, Mike Ehnot		
Uni-Tech:	Butch Hitzelberger, Brad Barnes, Sean O'Rourke		
Intex:	Todd Daniel		
Westbay:	Andy Bessant, Dennis Oertel		
Earth Data:	George Seidman		
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
-Tender truck.			
-Support truck.			
-Deere 310E backhoe.			
-60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
<ul style="list-style-type: none">- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the extraction well site. See below for details.- The health and safety plan was reviewed by Earth Data and Westbay personnel. These personnel signed off on the plan. The details of the health and safety plan were reviewed with the Earth Data and Westbay personnel.- CDM, Westbay, and Earth Data proceeded to install transducer strings in wells SVP-5 and SVP-10. Both strings consisted of 5 transducers. In each well the transducers were installed at ports 1, 3, 5, 8, and 10. The MOSDAX/MAGI data recorder, communications cables and 12 volt battery were secured inside an aluminum cabinet which was connected to flush mount well protective casing using cable ties. Ports are number from deepest to shallowest. Data collection at the rate of one reading per minute was started at each location. The instruments will be check on 8/24/10.- In the afternoon, opened port 2 at well SVP-11 which converts this well to a temporary piezometer. A transducer was installed in this well. Excess cable was wound up, tied off, and left inside the flush mount protective casing. Data collection was started on this transducer at the rate of 1 reading every 10 minutes. Transducers were installed in wells.- At the extraction wells Uni-Tech wired each pump to a control box and started pumping all three extraction wells simultaneously. The combined, total flow rate was 400 gpm. CDM collected water level measurements at approximately 30 minute intervals.- Uni-Tech started clean up of the extraction well area. Drilling pipe and other equipment was loaded on the rig tender truck. The drilling rig and and rig tender were moved to the staging area for decon.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

WORK BEING INSPECTED:

1. Dougherty and Hitzelberger reviewed the specifications for the aquifer testing. After development, the backflow preventer will be placed in the discharge line from each well at the surface. This is acceptable. Installing the backflow preventer directly above the pump would prevent surging by turning the pump on and off from being used during development.
2. UTD currently plans to use one totalizing flow meter, with a sweep second hand, on each discharge line to monitor the flow rate. The specifications call for installation of a mechanical totalizing and mechanical instantaneous reading flow meter. Hitzelberger said he would discuss it with Joan Baer and get back to me.

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

- Daily tailgate H&S meeting with Uni-Tech, topics covered:
Due to wet weather slips trips and falls were discussed, proper PPE (hardhat, safety glasses, steel toe shoes and safety vest):
watch out for traffic in the parking lot when walking or moving vehicles.
- Daily tailgate H&S meeting with Earth Data and Westbay, topics covered:
Due to wet weather slips trips and falls were discussed, the highlights of the Health and Safety plan were discussed.

TESTING PERFORMED:**PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:****GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:****COMMUNICATION WITH CONTRACTOR STAFF:****MEETING:****ADDITIONAL ACTIVITIES AND REMARKS:**

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-24-10

Day: 78 (Tuesday)

WEATHER: Overcast, occasional heavy rain.

TEMP: 70's, humid

WIND: Strong, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Sean O'Hare, Mike Ehnot		
Uni-Tech:	Butch Hitzelberger, Brad Barnes, Sean O'Rourke		
Intex:	Todd Daniel		
Westbay:	Andy Bessant, Dennis Oertel		
Earth Data:	George Seidman		
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
	No visitors		
EQUIPMENT IN USE:			
-Tender truck. -Support truck. -Deere 310E backhoe. -60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
<ul style="list-style-type: none">- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the extraction well site. See below for details.- A tailgate H&S meeting was conducted before the start of work by Earth Data/Westbay at the extraction well site. See below for details.- CDM, Westbay, and Earth Data proceeded to check and download data from the transducer strings in wells SVP-5 and SVP-10. Both strings consist of 5 transducers. In each well the transducers were installed at ports 1, 3, 5, 8, and 10. The instruments were function properly and recording data. Data was downloaded using the vendor supplied software. Westbay then departed site.- CDM and Earth Data then proceeded to open ports and install individual transducers in wells SVP-2 (Port 4), SVP-3 (Port 3), SVP-4 (Port 6), and SVP-9 (Port 5). Opening individual ports converts this well to a temporary piezometer. The pressure inside and outside the port was checked and the water level inside the transducer was pumped down to ensure that, when opened, water would flow into the Westbay casing (and not out into the formation.) A transducer was installed in each well. Excess cable was wound up, tied off, and left inside the flush mount protective casing. Data collection was started on each transducer at the rate of 1 reading every 10 minutes.- At the extraction wells Uni-Tech continued development of each extraction wells. Each well was pumped individually. The flow rates were as follows: EW-1S 72 gpm, EW-1I 72 gpm, and EW-1D 157 gpm. CDM collected the static water level from each well before the start of pumping and then collected water level measurements at approximately 15 to 20 minute.- After the sand testing was completed development was considered complete and samples were collected from each well. The samples are being analyzed for TCL VOCs, total iron and manganese, filtered iron and manganese. These samples were packed on ice and shipped to the DESA lab in Edison, NJ via FedEx.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

WORK BEING INSPECTED:

1. UTD had planned to use one totalizing flow meter, with a sweep second hand, on each discharge line to monitor the flow rate. The specifications call for installation of a mechanical totalizing and mechanical instantaneous reading flow meter. Hitzelberger said he would discuss it with Joan Baer and get back to me. Hitzelberger informed Dougherty that Uni Tech was switching to a flow meter capable of displaying the total flow (in gallons) and the flow rate (gallons per minute). This combined unit is acceptable.

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

- Daily tailgate H&S meeting with Uni-Tech, topics covered:

Discussed safety related to work with the trailer mounted electrical generator being used to operate the pumps in the extraction wells.

- Daily tailgate H&S meeting with Earth Data and Westbay, topics covered:

Discussed the importance of watching for traffic and wearing high visibility vests.

TESTING PERFORMED:

1. The sand test was performed on each extraction well. Each test took about 2 hours to complete. Each well passed the sand test criteria of less than 5 mg/l of sand. One pint of well water was collected into a jar after sand testing was complete.

PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:

In the case of SVP-2 and SVP-4 the flush mount surface casing were full or surface water runoff from the parking lot so the Westbay casing was extended above ground surface, using temporary casing, to prevent surface water from entering the well while the port is open. The flush mount casings at SVP-3 and SVP-9 were dry even though it had rained very hard during the morning, indicating the protective casing was keeping run off out of the well. The conditions at these wells will be monitored and the casing will be extended if necessary to prevent surface water infiltration.

GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:**COMMUNICATION WITH CONTRACTOR STAFF:****MEETING:****ADDITIONAL ACTIVITIES AND REMARKS:**

See attached photo log for 8/24/10.

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-25-10

Day: 79 (Wednesday)

WEATHER: Overcast, occasional

TEMP: 70's, humid

WIND: Strong, from the South

PERSONNEL ONSITE			
CDM : John Dougherty, Sean O'Hare			
Uni-Tech: Butch Hitzelberger, Brad Barnes, Sean O'Rourke			
Intex:			
Earth Data: George Seidman			
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Support truck.			
- Deere 310E backhoe.			
- 60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the extraction well site. See below for details.			
- A tailgate H&S meeting was conducted before the start of work by Earth Data at well SVP-4. See below for details.			
- Uni-Tech decontaminated drilling equipment and vehicles. The Uni-Tech and CDM checked the three flush mounted monitoring well pairs for surface water infiltration. All protective casings were free of water indicating that the surface seal is working. Uni-Tech worked on set up of the equipment for the step testing. Flow rates on all three extraction wells were adjusted to their initial values for the start of step testing.			
- CDM prepared bottle sets for the next two sampling events: step test and aquifer test.			
- CDM and Uni-Tech inspected Garden City wells GWP-10 and GWP-11 and determined how to install a water level indicator in each well. It was determined that the airline at well GWP-11 is working and therefore, water level data from this unit at GWP-11 will be used during the test. The air line at GWP-10 does not appear to be working so a water level indicator will be used in that well.			
- CDM and Earth Data checked wells SVP-2 and SVP-4 and determined that only one port, as intended, was open in each well so that the well would function as a temporary piezometer.			
- CDM successfully installed the MLog and WinGT software required to interface with the MOSDAX data logger installed at wells SVP-5 and SVP-10. The communications cable required to interface the computer with the MOSDAX data logger was tested and did not work. A substitute cable was provided by Earth Data and this cable worked. CDM interfaced with the data logger, downloaded data, and stopped logging on the instrument.			
- CDM and Earth Data removed the Westbay logging equipment from well SVP-5 which was installed in a metal box over the well.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

This was done to protect the equipment from vandalism. The equipment will be stored on site and will be reinstalled on Monday 8/30/10 to continue data collection.

- The temporary well extensions installed at SVP-2 and SVP-4 were checked and were working as designed.

WORK BEING INSPECTED:

JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:

- Daily tailgate H&S meeting with Uni-Tech, topics covered:

Discussed slips, trips, and fall hazard. Use of hard hat required when overhead hazard present.

- Daily tailgate H&S meeting with Earth Data covered:

Discussed the importance of watching for traffic and wearing high visibility vests.

TESTING PERFORMED:

PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:

GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:

COMMUNICATION WITH CONTRACTOR STAFF:

MEETING:

ADDITIONAL ACTIVITIES AND REMARKS:

See attached photo log for 8/25/10.

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-26-10

Day: 80 (Thursday)

WEATHER: Clear, Sunny.

TEMP: 80's

WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM : John Dougherty, Sean O'Hare			
Uni-Tech: Butch Hitzelberger, Brad Barnes, Sean O'Rourke			
Intex:			
Earth Data:			
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Support truck.			
-Deere 310E backhoe.			
-60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the staging area. See below for details.			
- Uni-Tech demobilized the driller rig from the site.			
- Uni-Tech cleaned up around the extraction well area including using a high pressure water sprayer to clean cement from the pavement. The driller placed sandbags on top of the buckets covering the temporary casings at wells SVP-2 and SVP-4 to keep the buckets in place during any storms.			
- CDM 1) installed bolts on the lids at wells SVP-5 and SVP-3. 2) Attempted to communicate with the MOSDAX data logger at well SVP-10 but was unable to establish communications. 3) Reviewed sample tubing requirements. 4) Reviewed QAPP and bottle sets prepared by Sean O'Hare to ensure readiness for sampling during step and aquifer testing. Discussed sampling requirements with Grace Chen, identified one parameter left out of the Field Planning Meeting agenda. Added bottleware for this parameter. 5) Installed Forms2Lite on Dougherty's computer, reviewed use with Sean O'Hare. Forms2Lite was used to generate bottle labels and will be used to generate chain-of-custody forms.			
WORK BEING INSPECTED:			
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:			
- Daily tailgate H&S meeting with Uni-Tech, topics covered:			
Discussed driving safety and hazards and precautions associated with use of high pressure water sprayer used for cleaning.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN: Westbay hardware: CDM was able to communicate with the MOSDAX box at SVP-5 on 8/25. On 8/26 we were unable to communicate with the box at SVP-10 while using exactly the same equipment. Later, attempts to communicate with the box from SVP-5 also failed. This issue was discussed with George Seidman of Earth Data. George discussed this with Westbay but the cause of this breakdown in communications is unknown. Suggested solutions include changing computers and cables until a working combination is found. In the mean time the logger at SVP-10 continues to collect data and the data collected at SVP-5 was downloaded. CDM must have a reliable way to communicate with the data loggers so that the sampling rate can be changed and data can be downloaded periodically. Earth Data will return to the site on Monday 8/30 to try to work out a solution. Field Change Request: based on review of the QAPP and field planning meeting, identified changes to sample collection scheme specified in the QAPP that need to be documented in a field change request. Two changes need to be documented 1) a "total" sample was added after the QAPP was prepared and 2) the DESA lab recommended dropping MS/MSD analysis on filtered metals and adding it on nitrate/nitrite. The total sample will be collected from the combined flow from all three wells. Discussed this with Grace Chen who is preparing an FCR to document the requested changes for EPA review.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-30-10

Day: 81 (Monday)

WEATHER: Clear, Sunny.

TEMP: 90's

WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Frank Robinson		
Uni-Tech:	Butch Hitzelberger, Brad Barnes		
Intex:			
Earth Data:	George Seidman		
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Support truck.			
-Deere 310E backhoe.			
-60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the extraction well area. See below for details.			
- Uni-Tech installed flow meters on the three extraction wells.			
- CDM completed a round of synoptic water level measurements at the following wells: SVP-2, SVP-3, SVP-4, SVP-9, SVP-11, MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, MW-3I, GWX-10019, GWX-10020, EW-1S, EW-1I, EW-1D, GWP-10, and GWP-11.			
Data was downloaded from the transducers in the following wells: SVP-2, SVP-3, SVP-4, SVP-9, SVP-11, MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, MW-3I, GWX-10019, GWX-10020, EW-1S, EW-1I, EW-1D.			
- CDM checked the status of the Westbay multilevel transducer system in well SVP-10. It is functioning properly. The data was downloaded from the MOSDAX box and the sampling rate was changed from 10 to 1 minute intervals in advance of step testing on 8/30/10. Earth Data arrived on site to assist with communications between the computer and MOSDAX box.			
- CDM and Earth Data reinstalled the MOSDAX logger on the transducer system in well SVP-5.			
- CDM contacted Intex and verified that the storage tanks do not need to be cleaned before we start on with the step and sustained yield test.			
WORK BEING INSPECTED:			
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:			
- Daily tailgate H&S meeting with Uni-Tech, topics covered:			
Discussed need for hydration and use of sun block due to hot, sunny weather.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN: Westbay hardware: To try to resolve the communications problems between the MOSDAX boxes and laptop computer experienced last week, CDM brought a new computer to the site. This computer is equipped with a serial port. CDM was able to use this computer to communicate successfully with the MOSDAX boxes at wells SVP-5 and SVP-10. This problem has been resolved.
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 8-31-10

Day: 82 (Tuesday)

WEATHER: Clear, Sunny.

TEMP: 90's

WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Frank Robinson, Thomas Mathew		
Uni-Tech:	Butch Hitzelberger, Brad Barnes		
Intex:	Todd Daniels		
Earth Data:			
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Support truck.			
-Deere 310E backhoe.			
-60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- A tailgate H&S meeting was conducted before the start of work by Uni-Tech at the extraction well area. See below for details.			
- The step test was conducted at well EW-1S, Flow rates were 40, 60, 75, and 90 gpm. Each step was 2 hours long.			
- At the conclusion of the step test sample EW-1S/S (total Fe and Mn, VOCs) and EW-1S/S-F (filtered Fe and Mn) was collected and shipped to DESA for analysis.			
- Dougherty and Thomas visited the infiltration basin, met with two Nassau County personnel, inspected the main inlet to the basin and put a lock on the gate to allow CDM to access the basin.			
- Dougherty called Frank Koch, Garden City Water Department, and left a message requesting his ok to use the air vent on GWP-10 and GWP-11 for water levels. This involves removing part of the vent by hand. This method is preferred because it is safer because the floor grate around each well can be left in place.			
WORK BEING INSPECTED:			
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:			
- Daily tailgate H&S meeting with Uni-Tech, topics covered:			
Discussed the danger of slips, trips, and falls and the need for hydration and use of sun block due to hot, sunny weather.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF: Dougherty and Mathew discussed the maximum flow rate that the treatment system must be able to handle during the sustained yield test with Todd Daniels and Butch Hitzelberger. Intex was under the impression that during the sustained yield test the flow would be 220 or 240 gpm. We reviewed the specifications and pointed out that the treatment system must be capable of treating 250 gpm. Daniels agreed that he could meet that requirement.
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 09-01-10

Day: 83 (Wednesday)

WEATHER: Clear, Sunny, Humid

TEMP: 90's

WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Frank Robinson		
Uni-Tech:	Butch Hitzelberger, Brad Barnes		
Intex:	Todd Daniels		
Seacoast:	Gene Streiter		
Network Environmental Solutions (Seacoast Subcontractor): Ken Lippay and Mark Mark Kumorek / Freehold Carting: Alfonso Trocchio			
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Support truck.			
-Deere 310E backhoe.			
-60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- A tailgate H&S meeting was conducted with Seacoast and Network Environmental Solutions (NES) before the start of confined space entry by NES into the 20,000 gallon storage tank in the staging area. See below for details.			
- Seacoast and NES cleaned out the 20,000 gallon storage tank and 5,000 gallon plastic tank in the storage area. There was about 3 feet of drilling mud left in the bottom of the 20,000 gallon tank before cleaning. NES completed a confined space entry to clean this material out of the tank. The water, drilling mud, and sediment were flushed into a 5,000 gallon vacuum truck provided by Freehold Cartage.			
- The step test was conducted at well EW-11, Flow rates were 40, 60, 75, and 90 gpm. Each step was 2 hours long.			
- At the conclusion of the step test sample EW-11/S (total Fe and Mn, VOCs) and EW-11/S-F (filtered Fe and Mn) was collected and shipped to DESA for analysis.			
- Demobilization was discussed with Uni-Tech. Uni-tech will chlorinate the extraction wells on Monday 9/13 and pump the chlorinated water from the wells on Tuesday 9/14. This water will be discharged to the treatment system. On Wednesday 9/15 Uni-Tech will complete the wells. Therefore, the driller should be able to demobilize from the site by 9/20. Intex should be done treating water by Wednesday 9/15. CDM tentatively scheduled Seacoast to clean the 20,000 gallon tanks being used by Intex on Thursday 9/16 and requested that they be removed on Friday 9/17. This will need to be coordinated with Intex because their carbon tanks may need to be moved before the tanks can be cleaned. The carbon tanks may need to be moved to the support area temporarily so that the other equipment (tanks and fencing) can be removed by 9/20.			
- Dougherty and S. O'Hare will demobilize the transducers and the contents of the trailer on Monday 9/13 and return the Westbay transducers and batteries to Earth Data on Tuesday 9/14. The other transducers will be shipped back to In-Situ.			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

<ul style="list-style-type: none">- Dougherty inspected wells GWP-10 and GWP-11 and located the instantaneous flow meter on both wells. Flow readings will be recorded during the sustained yield test.- Data from the transducers in SVP-10 and well EW-11 was downloaded for analysis.
WORK BEING INSPECTED:
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN: - Daily tailgate H&S meeting with Seacoast and NES topics covered: Discussed the need for hydration and taking breaks in shade due to hot, sunny weather. Reviewed the confined space entry permit with Gene Streiter. Confirmed that NES is monitoring atmosphere inside the tank and that the person doing the entry is using a harness and safety line
TESTING PERFORMED:
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF: Dougherty and Uni-Tech discussed the maximum flow rate planned for the sustained yield test. Uni-Tech indicated during the day that the maximum flow rate will be 240 gpm as this is the flow rate that Intex is comfortable with. CDM reiterated that the contract calls for the system to be able to handle 250 gpm. Uni-Tech will discuss with their office and Intex.
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 09-02-10

Day: 84 (Thursday)

WEATHER: Clear, Sunny, Humid
TEMP: 90's
WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM :	John Dougherty, Frank Robinson		
Uni-Tech:	Butch Hitzelberger, Brad Barnes		
Intex:	Todd Daniels		
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
- Pickup truck. - Deere 310E backhoe. - 60 Kw Generator			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
- The rig tender, trailer, and roll off box were demobilized from the site by Uni-Tech. - The 20,000 gallon tank at the staging area was demobilized from the site. - The step test on well EW-1D was completed. The test included 4 steps of 2 hours each. Flow rates were 60, 100, 140, and 180 gallons per minute. - Samples EW-1D/S (VOC and total Fe and Mn) and EW-1D/S-F (filtered Mn and Fe) were collected at the end of the step test and shipped to the DESA laboratory for analysis. - Scheduling of personnel for the sustained yield test was completed. - Flow rates for the sustained yield test were discussed with Dan O'Rourke and will be 70 gpm for wells EW-1S and EW-1I and 110 gpm for well EW-1D. - Data from the transducers in SVP-10 and well EW-1D was downloaded for analysis.			
WORK BEING INSPECTED:			
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:			
TESTING PERFORMED:			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF: Dougherty spoke to Todd Daniels of Intex and confirmed that we will be pumping at a total flow rate of 250 gpm. Daniels responded that he would do what was necessary to handle this flow rate.
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

Daily Status Report

PROJECT: Old Roosevelt Field Site

Date: 09-03-10

Day: 85 (Friday)

WEATHER: Clear, Sunny

TEMP: 80's

WIND: Gentle, from the South

PERSONNEL ONSITE			
CDM : John Dougherty			
VISITORS			
TIME	NAME	REPRESENTING	REMARKS
No visitors			
EQUIPMENT IN USE:			
CONSTRUCTION ACTIVITIES COMPLETED AND/OR IN PROGRESS:			
WORK BEING INSPECTED:			
JOB SAFETY. INDICATE WHAT WAS CHECKED, RESULTS, AND CORRECTIVE ACTIONS TAKEN:			

Daily Status Report (Continued)

PROJECT: Old Roosevelt Field Site

TESTING PERFORMED: - The above ground Westbay logging equipment at well SVP-5 was removed for safe keeping during the Labor Day weekend. The cap on well SVP-5 was secured. The above ground Westbay logging equipment at well SVP-10 was left in place because it is the fenced in area near the extraction wells. - Data from the transducers in SVP-5 and SVP-10 were downloaded for analysis.
PROBLEM/DELAYS/CORRECTIVE ACTION TO BE TAKEN:
GREEN REMEDIATION PRACTICES IMPLEMENTED AND QUANTITIES TRACKED:
COMMUNICATION WITH CONTRACTOR STAFF:
MEETING:
ADDITIONAL ACTIVITIES AND REMARKS:

By: John Dougherty

Title: Field Team Leader

ATTACHMENT 2
FIELD LOGBOOK NOTES

Location Roosevelt Field Date 8/23/10
Project / Client Weather XO Install / EPS
Development. Donaherty

0630 Donaherty + S. O'Hare arrive
onsite at trailer. Unpack
equipment + supplies. S. O'Hare
begins calibrating instruments.

0720 Donaherty proceed to well
site.

0730 At Extraction well site.
Driller is onsite.

0747 Finish discussion w/ Butch
re flow meter setup. Tell him
spec call for 2 flow meters.

0750 Return to trailer. Review
data on weather wells.

Plan for Day - S. O'Hare -
develop extraction well.

Donaherty + Ennot work w/
Weather / Earth Data to install
XO's in weather wells.

Personnel onsite: COM: John
Donaherty, Sean O'Hare
[Butch Hitzelberger, Brad
Barnes, Sean O'Rourke,
O'Rourke - UTD]

John Donaherty 8/23/10

Location Roosevelt Field Date 8/23/10
Project / Client Weather XO install well
Development. Donaherty

Equipment. See page 5.

Weather 70's, overcast, humid.

RPE: Level D.

0829 Depart for Extraction well
site.

0835 Arrive extraction well site.
Conduct H+S briefing - discuss
slip/trips/fall hazard.

0855 Meet up w/ Mr. Ennot,
George Seibman - ED, Andy
Dessant + Dennis Oertel from
SWIS. Review HASP. Conduct
Health + Safety briefing -
discuss slips trips/falls, +
traffic safety.

0900 Begin installation of
transducers in SVP-5.

0937 2nd XO Open hole at
SVP-2.

0950 4th probe ready to go
Open hole.

VRAE reading 0 ppm. It had
read zero in work zone through
out XO install JTD 8/23/10

Location ORR Date 8/27/10
 Project / Client EPA / Aquap Test
Donkerty

Wells where a single XO will be installed:

Well	Port	Cable Len.	
SVP-2	4	50	✓
SVP-3	3	50	✓
SVP-4	6	50	✓
SVP-9	5	50	
SVP-11	2	100.	✓

Wells where weather multilead XO's will be installed:

SVP-5
 SVP-10

1028 Transducers installed in SVP-5. Donkerty proceeding to trailer to get Computer for setup at next location.

- Take final reading by VRAE.

Reads 0 ppm.

1100 Setting up on well SVP-10 to install transducers.

1200 Return to SVP-10 by Doug 8/23/10

Location Roosevelt Field Date 8/23/10
 Project / Client Donkerty

- Check battery voltage, if below 11.5 charge, or battery.
 - When removing - pull SLUG IN, Leave arm out.

extension cords. Installation of XO is proceeding.

1323 Installation of XO string in SVP-10 complete. Transducers (XO) installed at ports 1, 3, 5, 8 & 10.
 - at SVP-5, transducers installed at ports 1, 3, 5, 8 & 10.

- Proceed to lunch.

1418 Return to extraction wells. Load up equipment from SVP-10. Start checking transducers.

1423 Call Frank Kerk to receive GWP-10 & 11. Leave a message. Drop boxes at trailer.

1523 Setup at E. SVP-11 to install transducer.

70 8/23/10 30.24

ORR
Project / Client Aquifer Test
DORGLART

Date 8/23/10

1528 DTW ft bgs inside SVP-
11 Westbay Pipe: 30.25 ft. bgs
1529 Check headspace above

breathing zone

SVP-11. Reads 0 ppm VOCs.

1530 Commence run w/ pressure
transducer to 402' which is
the depth to Port 2.

Pressure check on Port 2.

Pressure inside Westbay is
a little higher than the pressure
at the Port.

1556 Open / Close tool / Downhole.
DTW ft bgs: 31.3 from top
of Westbay

2.2 ft. tool, port close.

Open port, water level
came up in well.

Open 2.37

1616 DTW SVP-11 29.72 ft
from top of Westbay casing,
black mark.

FRS 8/23/10

Location ORR
Project / Client Aquifer Test
DORGLART

Date 8/23/10

21

- Install transducer S/N:
in SVP-2, Port 2
on 11 4/23/10.

For all work done at SVP-11, all
secure. All cleaned up well
secure.

1600 Depart SVP-11. - Return to
trailer. Sea-O. Preparing bottles/water.

1630 Depart trailer - check on
Mesorex XO's at SVP 5 & 10 -
all ok. Return to trailer.

O'Kare informs me that XO's
are installed in ELV's but may
be too deep.

Proceed to Extractor well site.
pull up each XO about 20 feet
secure.

1630 Depart site for day, Proceed
to get dinner. Return to hotel.

1640 Attempt to contact helpdesk
to get ok to install software on
my computer. Unask to reach
anyone. Approval granted
for software.

FRS 8/23/10

Off

8/23/10

~~Don't start~~

- Work on DSR and photo by
w/ Sean O'Hare.

215 Work done on DSR.

Off
8/23/10

Location

Old Roosevelt Field 8/24/10

23

Project / Client

~~Don't start~~

215 Don't start onsite at staging
area. S. O'Hare at staging
area.

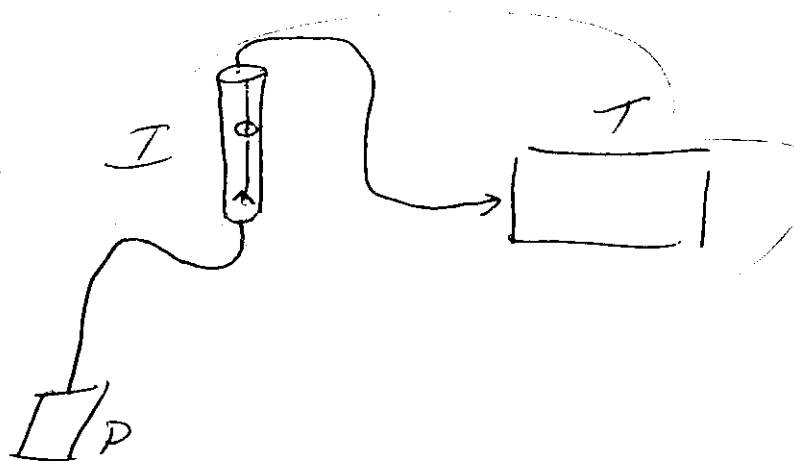
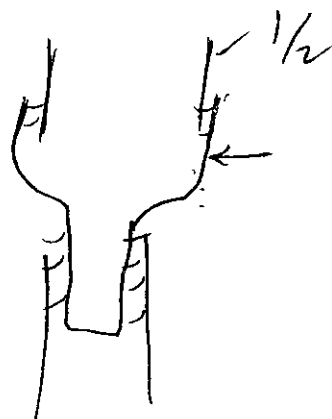
215 At SVP-4, comes in place.

Off
8/24/10

ORF

2/24/11

Don't forget



ORF

2/24/11

25

Don't forget

0757 Check transducers in SVR-5. All XO's recorded 1263 records, 0 errors, total reading 7588, last read at 0757. Memory used 11.37%
1 min readings.

10 Download, pause data logger.

2/24/11

Location ORF

Date 8/24/10

Project / Client

Dougherty

0900 A. Bessant + D. Aertel depart site.

0947 M. Elyot deploying XO's in EW's. Dougherty + Seidman proceed to SVP-4 to open Port.

1051 Opened Port 6 on SVP-4
open 0.19 ft. 2.26 to 2.35

1117 Done opening Port 6 at SVP-4. Will attach extension to casing to prevent seawater infiltration. Opening port for use as an observation well.

- Proceed to SVP-2

1130 Set up at SVP-2

1212 Handle in place.

2.24.

Try to open port. IT

AD - 8/24/10

Location ORF

Date 8/24/10

Project / Client

Dougherty

Does not open. May already be open.

1227 Go back down to try to close port.

2.99

3.15

1247 Back to open port.

2.26 closed

2.4 open

Port 6 is now open.

Apparently, it was open we closed it.

Final judgement. Port was probably open because head readings inside + outside were identical + we could not open port on first attempt.

1308 Start pressure profile on SVP-2

1333 Complete pressure profile.

For Dougherty 8/24/10

ORF

8/24/10

Project / Client

Democrat

- lunch

1448 Setup at SVP-3.

DTW ft TIC ~~33.37~~ 39.33
top of 4" stainless steel.1501 DTW 40.31 from top of
4" stainless steelWait 5 minutes to see
if reading is stable1506 DTW TIC 4" stainless
steel = 40.31 Therefore
all ports are closed. —— proceed to pressure check
SVP-3 port 31514 Check pressure on Port
3. Pressure is greater on
port than inside casing so
water will flow in when
port opened.1517 Proceed to open Port.
measurement - port
closed 2.14.Try to open ~~of~~ port. Does
not appear to open.

ORF 8/24/10

Location

ORF

8/24/10

29

Project / Client

Democrat

38.2 DTW TIC 4", therefore port
is not open. Determine that we
were not pulling on Port. Reposition
tool so that it is on port. Place
water level indicator in well
at 31' to check for water level
rise. Open Port. Water level indi-
cator ~~shows~~ is indicating water
level rise which confirms Port is
open.1601 Depart SVP-2 - all secure.
Proceed to SVP-9.

1603 Setup at SVP-9. —

1605 DTW 36.49 Top of Weather
Casing. Install water to
remove water.1619 DTW 38.42 Top of weather
Wait 5 min to see if water
level recovers.1625 DTW 38.42 Top of weather
∴ Ports are closed.1642 Open/close tool at 291,
ready to open.

ORF 8/24/10

ORF

8/24/10

~~Donnelly~~

1643 DTW 36.61 ft. from Westbay
inner casing.
Mud. start 289 closed
open port, probably sheared
on as tool jerked

1646 DTW 31.42 from top of
Westbay which indicates
Port is open.

1704 Done at SVP-11, all packed
up.

1715 Earth Data all site.
- install bolts in SVP-3.
- cone at SVP-2?

1813 M. Ennot at site. Got
Ruggel reader from him.
Finished install of XD on
at SVP-9. Casing is
dry inside + does not
appear to be leaking.

1933 Get trailer. S. O'Hare
working on samples. Drop off
extension cords. Proceed to get
ice at Gulf Station.

ASD → 8/24/10

ORF

8/24/10

~~Donnelly~~

1904 Back to site w/ Ice for samples.
S. O'Hare onsite prepping samples
to ship. ~~Donnelly~~ depart
site.

ASD
8/24/10

Old Fessenden Field. 8/25/10

Project: 1000

CONTRACT

0717 Call Sean O'Hare -
complete DSR.
0730 Email DSR - proceed
to site.

Location OFF

Date 8/25/10

33

Project: 1000

CONTRACT

0852 SVR-04. Check for open
port's. Stop transducer
Troll 51N 132093. Troll 500
0859

DTW 32.94³ top of casing,
port open. Casing is
temporary + sticks up
about 0.6 ft.

0911 Port closed. Port 6 @ 24²⁵³
2.62 to 2.45 = 0.17

0913 DTW top of temp
casing 32.82. Port
closed. Open/close tool
down hole.

0918 DTW 35.83 top of
temp casing. After removing
water w/ water pump. Open/
close tool down hole. Allow
water level to rise 8/25/10
Wait 5 min + check
water level. If port is
8/25/10

Location

OFF

Date 8/25/10

Project Name

At Port/EPA

Don't want

on 8/25/10

open the water level & should
recover.

17.5 x 18'

2.11

0934 Ready to
open Port.

1.98
0.13

0935 DTW 35.86 ft top of
temp casing

Open port. Meas. 2.11

Water level rose.

0938 Final DTW 32.82
From top of temp
casing.

0945 Reinstall transducer
S/N 138093 in SVP-4
Port 6 open.

Frank Koch @ 1145.
8/25/10

Location

OFF

Date 8/26/10

Project

Don't want

Depth readings is 15.09'
DTW is 32.82.

32.82

15.09


47.91

0952 Setup test
SVP-04 20100825
to collect data on
Troll 1500 S/N

1205 Met w/ Frank Koch
at GWP-10

DTW 37.7 from top of
pipe in well head
where air line enters.

Need ruler 1/10' for each
GWP.


8/26/10

ORF

8/25/10

Don't eat

1330 Return to Hotel. (Check in.)

- Get online to install

Westray / MOSDAX / MAGI
Interface Software.

1430 Software install on
Computer. Return to site.

- Lunch.

Return to site.

Call Butch to check on MW's 1,
2 & 3 to see if SW is
getting into wells w/ 4" XD's

1530 Get SVP w/ George Erdman
from East Data trying to
get software working &
interface w/ computer working.

1544 First try - no go.

- Change cable.

1636 Logged onto MOSDAX
Box. XD's 1 through
5 report 194 records,
Total records 1169

Error 0

Mem used 1.57%

On 8/25/10

ORF

8/25/10

37

Don't eat

1940 Daugherty & O'Hare offsite.

1630 - 1930

- Remove MOSDAX data logger,
battery, & cables, out
metal enclosure for well
SVP-5 to protect equipment
from vandalism. Secure
well lid on SVP-5.

- Prepare plan for 8/26 - all
p 38 - 39.

On 8/25/10

On 8/25/10

OK

8/25/10

Plan for 8/26/10 ~~Don't forget~~

- ✓ Bolts at SVP - 3
- Coover bottle sets + forms
2 Lits.
- ✓ Review Drilling SW + decum
in Driller. - stop - pump
- DESA Communications
- ✓ Check Mosox at SVP-10
- Data Collection Forms for
Aq. testing. (Chickasaw form
for flow rates)
- PZL
- ✓ Gate key from Thomas
- ✓ Sample ports - inspect.
- sample tubing / filtration
- peristaltic pump tubing.
- ✓ Butch bolt sources (Lowes)
8/25/10

OK

8/25/10

39

~~Don't forget~~

Shopping list

2 ~~A~~ ruler, 1/10's foot. ; key holder.
order taking from Pine.

~~Don't~~

① Pre-test Calibration
report. on flow meters is
due now.

② Need products specs
on flow meters
OK to mine acceptance.

Flow rates:

		40
EW-15	1) $0.5 \times 60 = 30$	
+ EW-11	2) $0.8 \times 60 = 48$	55
	3) $1 \times 60 = 60$	70
	4) $1.33 \times 60 = 80$	90
		<hr/>
EW-1D	1) $0.5 \times 80 = 40$	50
	2) $0.8 \times 80 = 64$	
	3) $1.33 \times 80 = 106$	107
	4) $1.75 \times 80 = 140$	160
	8/25/10	

ORF

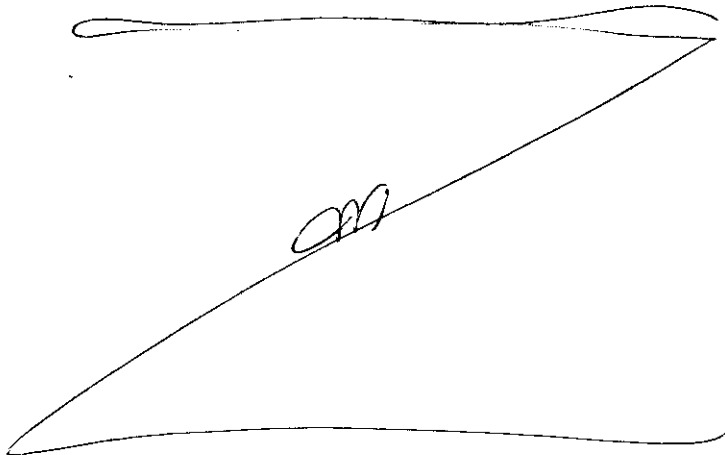
8/25/10

~~Dougerty~~

③ Ali - what are target flow rates for pump test? 60, 60 - 80?

What about 130 gpm for EW-1D?

Loc	Inc	Rate	GPM
EW-1D	0.5	130	65
↓	0.8	↓	104
	1.33		173
↓	1.75	↓	228



8/25/10

Adrianne/H. Field
USEPA

8/25/10
8/26/10

41

~~Dougerty~~

0700 Dougerty + O'Hare onsite at staging area. 0750

0710 H. Breking by Driller:

Discuss driving safety - 1415 being removed from site today + safety when using high pressure water sprayer.

Plan for Day 1) Driller - demob drilling rig; clean up extraction well area; top off shallow extraction well w/ grout; sample bags on SVP2+4.

2) COM - bolts at SVP-3;

Check MOSDAX at SVP-10;

review F2L; review bottlesets;

inspect sample ports; order any supplies needed, stop for supplies.

Perth. Personnel Onsite:

S. O'Hare + J. Dougerty, COM.

B. Hitzelberger, B. Barnes, +

S. O'Rourke - ATD.

Personnel Protection: Level D.

Equipment in Use: TDS.

0745 At SVP-3 to try to replace bolts.

Dougerty 8/25/10

Location: Old Roosevelt Field Date: 8/24/10
 Project: Aquifer Test/EPA
 DOMESTICITY

0750 Apply penetrating lubricant
 on both knobs & locking lid w/
 paper towels.

0829 Have succeeded in tapping
 screws into holes. Letting
 penetrating oil evaporate
 before closing well.

0849 Lid secured on SVP-3.
 3 bolts secured.

0850

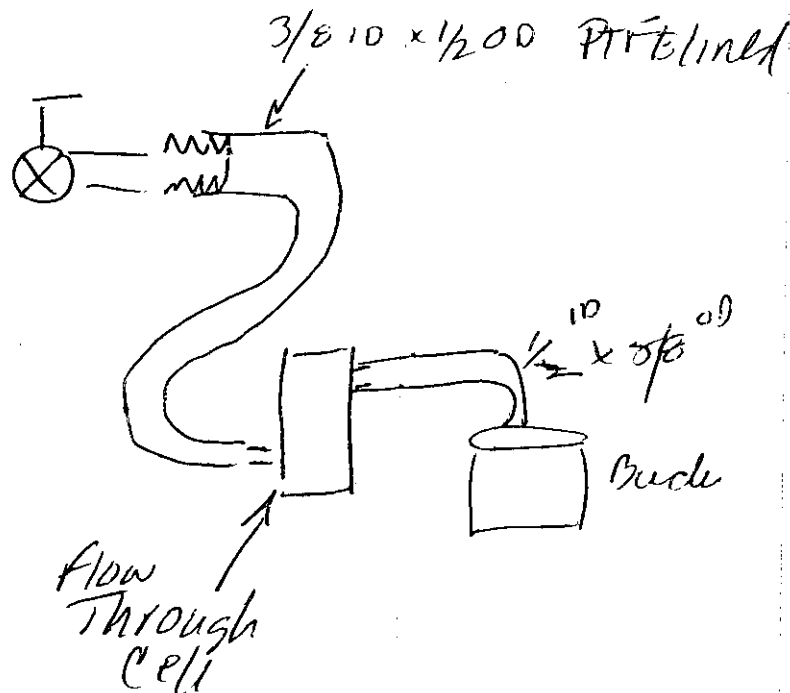
3/8 10 x 1/2 10 00

0911 Voltage 12.6 V on battery
 at SVP-10. Data logging on.
 Status — 29% memory
 Low. Unable to communicate
 w/ MODex using same
 hardware as yesterday at
 SVP-5. Informal Earth
 Data.

CPI 8/24/10

Location: Old Roosevelt Field Date: 8/24/10
 Project: Aquifer Test/EPA
 DOMESTICITY

43



OME 8/24/10

ORF

8/21/10

Donnerstag

1038 At trailer. Test MasDax from
SVP-5. Connection ok w/ Calde
used on 8/25/10. leave a
message for Gorge. —

1045 Review bottles in Sean.

MS/D volume for Metals -
IL is sufficient for sample +
MS/MSD.

ETA = TSS, TDS + alkalinity
nitrate/nitrite MS/MSD -
Collect extra volume.

MS/MSD at ELW - Total - A

- Cyanide ONLY
- nitrate/nitrite
- oil + grease
- total TAL metals +
Mercury

Trip Blanks

- with each WFA shipment.
- TO date

ORF 8/24/10

ORF

8/26/10

45

Donnerstag

1139 UTD offsite Friday/week.

- review bottle sets + QAPP in
S.O. Kone.
- discuss need for field change
request in Grace Clark.

1230 Discuss step test + sustained
well test flow rates in Butch.
Suggest 3/4 rates for wells
IS + II: 40, 55, 70, 90
ID: 50 start, end 160

Review QAPP: issues identified:

- ① Samples during aquifer test
have been revised -
QAPP says 1 sample from
each well at 24-48 Hr
+ 1 at 72. PPM agenda
adds a "total" sample +
rearranged pa-list. Discuss
in Grace - will do a KCR.

ORF 8/26/10

ORF

8/26/10

Dorchester

QAPP 17c Samp no KB
 Quarry sampling, QAPP #20
 1158 FB

TB Plan

- Synoptic rounds:

a) 1 Btfn start of tests,
 Monday, 8/30 Do
 all wells in the network
 including GWP

b) ?

Monday - switch to 1 min
 logging intervals -
 Clean load data from each
 XO - clear memory &
 start new test.

1309 Renew #2L.

Step 4 - assign date &
 time

Step 5 - Skip

Step 6 - Lab Code: DESA
 - QAPP 8/26/10

ORF

8/26/10

Dorchester

6: assign samples to lab.

7: Carrier: Felex.

- assign samples to carrier.
 - Finish

TR - Region Copy

- Temp Blank in each cooler -
 put it in in the morning.

- Sign COC.

- PDF COC + email to John
 Burdick + John Bovi in
 DESA - site name, date
 samples collected, number
 of samples, # of TB's, # of
 MS/MSD, air bill no,
 # of coolers

CM 8/24/11

Old River H Field 8/26/10
Aquifer Test / EPA
DOUGHEARTY

1421 Downloading Vorns 2 Ltr
to install on my Computer.
Called Contractor in VA & got
License #.

1450 F2L installed on my
Computer. Attempt to transfer
file from Sean O'Hare's computer
to my Computer.

1501 Call back from George Seidman.

- ① replace serial cable
- ② use same comm port on both.
- ③ reinstall cable

re problem communicating Modem
at SVP-10.

1505 F2L file transferred from
SD to JRO Computer.

Bottle Configuration

metals 1 L Poly w #403
3x 40 ml - VOC HCl
Cyanide 100% NaOH
O+G 1 L clear glass, ice
Headspace - 250 ml w #403
ON 8/26/10

49
Old River H Field 8/26/10
Aquifer Test / USEPA
DOUGHEARTY

MB/MSD QAPP = Field Plan
except we are

T-T-A 1 L Poly, in present.
TDS, TSS, Alk

Nitrate/Nitrite 250 ml
w #2504

1515 Try to reconnect to Modem
From SVP-5 to Cleck which
ports 15 used. Cannot
connect. Give up on this for now.

1544 DOUGHEARTY & O'Hare off site.
- lunch

1644 Depart site for home.

1930 Arrive home.

ON 8/26/10
ON 8/26/10

Location Old Roosevelt Field Date 8/29/10
 Project / Client Aquifer Test / USEPA
 Doughterty

1845 Depart home for Edison to
 pickup batteries & print outs.

2007 Pickup 3 12v car
 batteries at warehouse &
 battery charger.

2030 Depart office after picking
 up print outs of data
 collection forms.

2245 Arrive at HI Lynebrook.

JAC 8/31/10

Location Old Roosevelt Field (ORF) Date 8/30/10
 Project / Client Aquifer Test / USEPA
 Doughterty

0737 Doughterty arrives onsite at
 ORF staging area after picking
 up ice.

- Load up for water level
 readings.

- Conduct Health & Safety Briefing
 Hydrate & MINIMIZE SUN
 EXPOSURE.

0800 Proceed to SVP-5.

0815 Come off Area at SVP-5.

0820

DTW 33.47' top of
 Temporary casing.

Stickup is 0.63 ft.
 at SVP-4.

Check pressure transducer
 S/N 138093 in SVP-4.

Working OK.

PSI = 6.27

Depth = 14.49

0839

33.68' top of temp casing
 at SVP-2

Stickup 0.95 ft

JAC 8/30/10

Location ORF Date 8/30/10
Project Caguer Pot / US40A
Dougherty

0840 Check transducer in SVP-2
S/N 137878
pressure 6.43 psi
Depth 14.86 ft.
batt 90%

0849 DTW 31.42 TIC 4" stainless
at SVP-3. Stick down
from ground surface to
top of 4" casing is 0.15'
Check transducer
S/N # 124323
Pressure 8.08
Depth 18.65'

0855

0906 DTW 32.11 from ^{top} of
sanitary seal at
MW-2I.
Check transducer, batt 100%.
S/N 165282
pressure 16.2
depth 37.41
Download Data ✓ *JP*
8/31/10

Location ORF Date 8/30/10
Project Caguer Pot / US40A
Dougherty

0908 MW-2S DTW 31.09'
from top of sanitary
seal.
Check transducer
S/N 165779
pressure 16.35
depth 37.74
Download data ✓

0929 DTW 25.58 top of Jan.
at MW-3I
Check & download xD.
S/N 165245
pressure 17.53
depth 40.49
batt: 100%
Download ✓

0931 DTW 25.13' top of
sanitary seal at
MW-3S.
Check transducer
S/N 166531
press. 15.43 depth 35.64
batt. 100% Download ✓
JP 8/30/10

ORF

8/30/11

Pump Test / REFUSEPA

Dougherty

9/10 9/24/11

0931 Cull from Georg Seldman.
He is enroute.

0953 DTW at SUP-9 32.51
from top of Westbay PRC.
Stick down from G.S. to
top of Westbay = 0.47'
Check transducer

S/N 138065

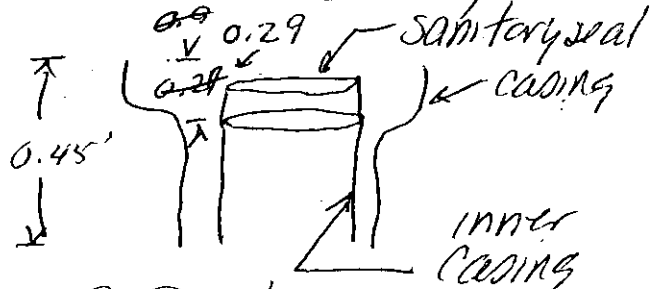
PSI 6.61

Depth 15.26 ft.

Download ✓

Battery: 89%

1007 GW DTW at
26.88 from top of
Sanitary Seal.
Stickup 0.45', stick down
0.29' ∴ casing is



— ADa 8/30/11 —

ORF

8/30/10

55

Pump Test / REFUSEPA

Dougherty

9/10 9/24/11

Check XO S/N 169308

Pressure 19.34 PSI

Depth 44.66 ft.

Battery 100%

Download ✓

1020 Frank proceeds to Staging
area to check on IDW for
Gen. Streeter.

1030 Call from Ali re flow rates.

- Max of 200 on EW-1D

1, 1.5, 2 & 2.5

- Ok to go w proposed higher
rates per my email.

1041 DTW 31.17' top of
San Seal at MW-1S.

Check XO S/N 165263

Batt 100%

Pressure 16.75 PSI

Depth 30.74 ft.

Download ✓

1048 DTW 32.31' top of Sanitary
Seal at MW-1I.

Check XO.

— ADa 8/30/11 —

ORF
Aquifer Testing / USEPA
Dougherty

8/30/10

MW-1I

XO S/N: 165225

Pressure, psi: 16.31

Depth, ft.: 37.65

Download J

1050 Frank Robinson reports that
MW-1S/1I. Reports that
Chiller is onsite.

1115 DTW 30.61 ft. from top of
sanitary seal. at GWX-10019
Check XO S/N 165573
psi 17.68
Depth 40.83
Battery 100%
Download J

1123 EW-1D Stickup 0.52
above ground surface.
DTW @ EW-1D 35.98'
from top of black PVC
pipe.
Check XO S/N 134984
Press. 29.59 psi
JD Dougherty 8/30/10

ORF
Aquifer Testing / USEPA
Dougherty

8/30/10 57

Depth: ~~68.38~~ 68.32 ft.

Download: J

Battery: 88%

1127 EW-1I DTW from top of
PVC - black plastic pipe
S 35.15 ft. St. up 0.49.38
Check XO S/N 135167
Pressure: 30.51 psi
Depth 70.43
Battery 90%
will raise XO a few feet
to avoid overpressure.

1133 Raised XO so pressure
reading is 29.28 ft.
~~Start new test.~~
Final position:

DTW: 35.15

Pressure: ~~29.4~~ 29.5

Depth 68.09

New test to start at
1140.

1140 EW-1S DTW 34.21
ft below top of black PVC
JD Dougherty 8/30/10

Location: ORF Date: 8/30/10
 Project / Client: Aquifer Test / USEPA
 DOMESTICITY

Check XO s/n 137886
 Pressure: 27.65 psi
 Depth: 63.82 ft.
 Download: ✓
 Stack up 1.12' above
 ground.

1200 Call Ann - left a message
 about calibration sheet
 for flow meters.

1205 Check on SVP-10.
 Instrument is in good
 condition.
 Status: Data logging ON
 Memory used: 85%
 Battery SVP-10A 12.60 V
 using volt meter.

1228 ~~Dom~~ Communicate w/
 MOSDAX, download data &
 stop test. Charge batteries.

1229 Battery SVP-10A 12.92
 V on volt meter.

1231 Install new battery: SVP-10B
 in housing at SVP-10.

Domesticity 8/30/10

Location: ORF Date: 8/30/10
 Project / Client: Aquifer Test / USEPA
 DOMESTICITY

MOSDAX: 13.3 V DC in
 records free 60217
 records used 534

1242 SVP-10. Clear data from
 box. Set up new test to
 collect data at 1 minute
 intervals to start at 1245.

1255 Lunch

1334 At trailer to get equipment
 for SVP-10.

1422 MOSDAX setup at SVP-10.
 Communications OK.
 Battery voltage: 12.8 V per
 MOSDAX.

1515 Discuss tank situation w/
 Inter. Todd Daniels - OK -
 Cont need to clean tanks

1515 Download data at SVP-4
 Transducers s/n 138093.
 Melt drill at GWP wells.

1531 DTW 101.45 at GWP-10
 Close to Clinton Pump on.

1537 DTW 75.88 at GWP-11
 from top of vent tube. Pump on.

Domesticity 8/30/10

Location

ORF

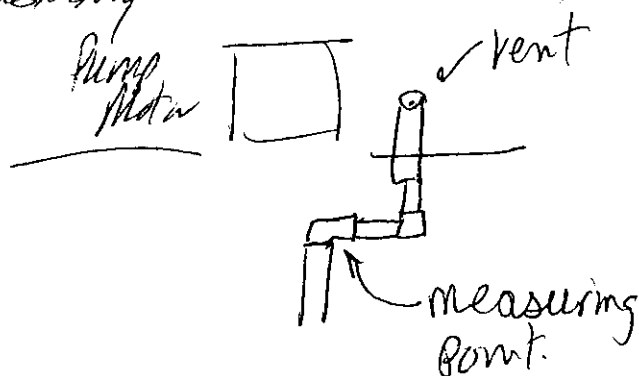
Date

8/30/10

Project / Client

Aquifer Test / USEPA

Dougarity



⁴⁵
1550 Diller off site for day.

1605 Dougarity + Robinson
Download data from SVP-4.

1610 Robinson off site.

1612 Dougarity secure transducers
at Extraction wells.

1620 Dougarity Depart site for hotel.
- go to Home Depot Shopping.
+ get level. - go to Home Depot
+ get 2 engineers scales.

1715 Shopping Complete.

To Do - Call Frank Koch
Leave a message about
using vent

- review specs.

— Dougarity 8/30/10

Location

ORF

Date

8/30/10

Project / Client

Aquifer Test / USEPA

Dougarity

1735 DTW 30.48 top of well
Casing at SVP-11
Stick down: 0.34' bgs.
Check XD 5/n 137908
pressure 18.71 psi
Depth: 43.21
Batt 90%

Download data ✓

1807 Scout Fed Ex location for
Shipping Samples to DESA.
Depart site. Return to hotel.

1923 Prep DSR.

ASO DSR sent. [ORF 0.6]

Plan for Day: 1) install flow meters;
2) synoptic round of water levels; 3)
resolve weather communication
problems; 4) setup MosDax at SVP-
5.

Level of Protection: D

Personnel on site CDM - Dougarity,
Robinson; UniTech - Butch H. + Barnes
East Data - George Seidman.

— Dougarity 8/30/10.

Location Old Roosevelt Field Date 8/31/10
 Project / Client Aquifer Test / USEPA
 Dougherty

Plan for day: 1) step test on EW-15.
 2) Sample EW-15 3) work up data
 from observation wells.

Equipment in Use YSI water
 quality meter. Calibrated by
 Frank Robinson.

AD 8/31/10

Location ORF Date 8/31/10
 Project / Client Aquifer Test / EPA
 Dougherty

0716 DTW EW-15 33.93 top of
 black plastic pipe.
 0717 DTW EW-11 34.72 top of
 black plastic pipe.
 0718 DTW EW-10 35.56 top of
 black PVC pipe.
 0720 EW-15 transducer 137886
 Pressure 27.78 psi
 Depth 64.14 ft.
 0730 Initial flow meter reading
 3659.1
 Combined flow meter:
 1769230063
 0750 EW-15 stickup 1.05'
 above ground/surface.
 EW-11 stickup 0.25'
 EW-10 stickup 0.5'
 0800 Start Step 1 at 40 gpm.
 0830 Dougherty - pickup supplies
 at trailer.
 0930 Return to EW-15. Prep
 for sampling.

Frank Robinson 8/31/10

ORF

8/31/10

Aquifer Test / EPA
Dougherty

- 0945 Thomas Matthew onsite.
 1000 Start Step 2 @ 60 gpm
 1020 Dougherty + Matthew
 visit Recharge basin w/
 Nassau Co. DPW.
 1040 Depart recharge basin.
 - return to Extraction well
 area w/ Thomas Matthew.
 - Meet w/ Todd Daniels from INTER.
 Discuss flow rate for treatment
 system. Make it clear to him
 that we expect to be able
 to treat 250 gpm per the
 spec.
 - Discuss options for sustained
 yield test w/ Butch H +
 Thomas M. One option would be
 to run 3 separate 24 hr
 tests, one on each well, at
 a high flow rate - upwards
 of 250 gpm.
 - Call Don O'Rourke to discuss
 options - will look at data from
 SVP-10 + Call Back.

AND 8/31/10

ORF

8/30/10

Aquifer Test / EPA
Dougherty

- 1245 Download data from SVP-10
 Westbay transducers.
 - Discuss pump test schedule w/
 Driller, Thomas Matthew + Frank
 Robinson. Driller wants to start
 at 0900 - this will be goal
 actual start may be later.
 1325 Dougherty off-site to get
 Computer. Pickup ice + peristaltic
 pump.
 14 Thomas Matthew departs site.
 1450 Dougherty returns to site.
 Prepare to take sample from EW-15
 Prep ice, check FPM + bottleware
 Will collect sample at conclusion of
 pumping at 1600.
 1600 Collect sample EW-15/S
 VOC pH < 2 ✓
 Metals, total pH < 2 ✓
 Metals, filtered pH < 2 ✓
 pH verified w/ pH paper.
 1630 Dougherty at Trailer to prep.
 Samples for shipment.
 1645 Driller departs site for day.

AND 8/31/10

ORF

8/31/10

Aquifer Test / EPA

Donnerstag

1710 Frank Robinson sign CoC + depart site.

1730 Done preping samples for shipment. Depart for Fed Ex.

1806 Cooler dropped at Fed Ex.

Shipped 22 sample : (M8/31/10 (NN03))

EW-15/S total Fe + Mn,
& VOCs (Ncl) (NN03)

EW-15/S-R filtered Fe + Mn

Airbill No: 8735 3385 4905.

1 temp blank + 1 trip
blank included in shipment.
in shipment. (M8/31/10)

CoC No:

1820 at SVP-10, download data from west bay well.

1850 Finish downloading data at SVP-10 + from EW-15.

1906 Check MODDOX at SVP-5.

Logging data, all ok. Secure alligator clips to 12v battery w electrical tape.

J. Brown, 8/31/10

ORF

8/31/10

Aquifer Test / EPA

Donnerstag

2019 Day To Do (M8/31/10)

✓ - Download data from PEGGS/Reade

✓ - Graph EW-15 step test data.

✓ - Process SVP-10 data + graph - look for influence from IS.

✓ - DSR

✓ - email to lab.

✓ - update log book.

2013 Stop.

Donnerstag 8/31/10

Location ORF Date 9/1/10
 Project / Client Aquifer Testing / EPA
 Dougherty

0700 Dougherty onsite.

0725 FCI onsite to empty
 20,000 gallon frac. tanks.

Personnel onsite: Dougherty,
 Robinson - COM. Hitzelberg
 & Barnes - UTD.

Equipment: YSI meter for
 water quality parameters
 Calibrated by Robinson. See
 page 5 for equipment info.
 Calibration record on instrument
 Calibration sheet. Water level
 indicators - see page 5.

J. Dougherty 9/1/10

Location ORF Date 9/1/10
 Project / Client Aquifer Testing
 Dougherty.

0730 Static water levels

EW-1S DTW 34.20 top of PVC

pipe.
 EW-1I DTW 35.00 top of PVC

pipe.
 EW-1D DTW 35.85 top of PVC
 pipe.

0737 Download + start new
 test on transducer in EW-1I

S/N 135167

pressure 29.54

depth: 68.2221 cm

DTW: 38.07 9/1/10

Test EW-1I 20100901

Scheduled to start at 0750

& collect data at intervals
 of 1 min.

Initial flow meter reading

EW-1I 535.8

Combined 17726859

J. Dougherty 9/1/10

Location ORF Date 9/1/10
 Project / Client Acufex Testing / US EPA
 Dougherty

0830 Start steptest on EW-II
 Flow rates will be 40, 60,
 75 + 90 gpm.

0830 Frank Robinson inspected
 20,000 gallon tank at staging
 area by Sea coast. Inspect
 tank & find 3' of drilling
 mud in bottom of tank.

0900 Call Thomas Mathew discuss

- 1) Ch. in SOHare to get coolers.
 - 2) Demob trailer contents by 9/17.
- Check w/ Frank & Butch re
 schedule. Onker will be

Chlorinating wells & finishing
 them during the week of 9/13th
 he may not be available.

0945 Dougherty proceed to get ice
 & work on shipping paperwork.

1000 Discuss EW-15 Steptest
 Data w/ Grace C. & Dan O.
 Dan O'Rourke requests that we
 try to get flow rate data from
 GWS.

1037 Depart staging area to EW.
 2000 9/1/10

Prep trip blank & Amy Blank

Location ORF Date 9/1/10
 Project / Client Acufex Testing / US EPA
 Dougherty

1040 Conduct tailgate H+S briefing
 w/ Gene Stroter & subcontract
 personnel. Discuss need for hydration
 & breaks in shade due to hot,
 sunny weather. Also discuss
 safety procedure for confined space
 entry being conducted by Seacoast
 & its subcontractor. Inspect
 Confined space entry permit
 prepared by Seacoast. Have him
 complete all items on form.
 Personnel working on tank clean
 out: Gene Stroter, Sea Coast
 Brad Barnes - UTD.

Rafonso Trocchio - FCI.
 Ken Lippay & Mark Kumorek
 - Network Environmental Solutions, Inc.

1102 Return to extraction well site.
 - Step 2 @ 60 gpm underway.
 Static was 35, dtw
 now is 36.87.

1120 Phone calls

- Call Thomas re Demob - ok
- to use Sean to Demob XO's m

9/1/10

72 ORR Date 9/1/10
Project / Client Aquifer Test / EPA

Diversity

Monday 9/13. Discuss drilling
sch - Driller says treatment
will be done by 9/14 + pumping
to Bortex plant will be done by
9/14. Assume, therefore, that
tanks can be cleared on 9/16.

- Take to TROD at INTER -
he can be demobilized by 9/20
but may have to move carbon
units to staging area
temporarily.

- Take to Sean O - ask him to
plan on working on ORR
XD/trailer demobs on 9/13
+ on 9/14 - take eq to Extm.

1144 Call from B. MacD re Duct
needs Surveyor deliverable
review ASAP.

1214 Call Don O'Rourke - left msg
re pulling XD's on 9/13.

- Call on 9/1/10

— ASD on 9/1/10 —

73 ORR Date 9/1/10
Project / Client Aquifer Test / EPA

Diversity

1247 At GWP-11. Find digital
display w/ GWP-11 flow rate.
Flow rate is 1210 gpm.

Separate meter lists plant
flow @ approx 1400 gpm.

1252 GWP-10 found flow meter
on wall in GWP-10 well house.

1257 Call Don O'Rourke + leave a
message that we have digital flow
meter.

1310 At staging area. Conduct
Health + Safety briefing w/
Seacoast + Network Environmental
Solutions

- Sign manifest for water
removed from 20,000 gal tank.

1402 Pickup ice, refuel truck.
Head to EW area.

~1345 Seacoast, NES + PCI off site.

1434 At EW location. Step 4 is
under way @ 90 gpm.

SPC 32.6 gal ft.

Static w.c. 35

Water level @ 1435 37.76.

— ASD on 9/1/10 —

Location ORF

Date 9/1/10

Project / Client

Aquifer Test / EPA

Donatary

1500 Call M. Elnot in Edison.
Discuss schedule for pump test.
He will be onsite at 0700 to start
synoptic water levels in Frank.
Renewal plan for day.

1515 Call Hagerman discuss schedule.

1525 Call Jeff Bakowski - discuss
schedule.

1538 Call Ed Krc schedule for
Pump test, left msg.

1544 Talk to George Seidman re
demo of weather equipment.

1600 Collect Samples

EW-1I/S Mn+Fe + VOCs 60

EW-1I/S-F Mn+Fe Filt. 100

Mn+Fe pH < 2 ✓ 140

Filtered Mn+Fe < 2 ✓ 120

1628 At Staging area to prep
samples for shipment.

1700 Frank Robinson off site.

1716 Depart staging area
for 2 FedEx.

1743 Cooler dropped off at FedEx
on Stewart.

In Donatary

Location

ORF

Date

9/1/10

Project / Client

Aquifer Test / EPA

Donatary

Sample Information

Sample	Analysis	pH check	Present
EW-1/S	Mn, Fe	✓	HNO ₃
EW-1/S	VOC	✓	HCl
EW-1/S-F	Filtered Mn, Fe	✓	HNO ₃

Shipped to DESA Lab. by FedEx

Qibill No. 8735 3385 4954

1749 Proceed to EW area to download
transducers.

1830 Done downloading data from
EW-1I + program Ew-1D to
collect data at 1 min. intervals.
Downloaded data from SVP-10.

1840 Call Butch - CM firm flow
rates of 60, 100, 140 + 180
gpm on EW-1D. - Tell him
we expect Zatec system to handle
250 gpm, not 240 as he indicated
earlier on 9/1/10. He said he
would talk to Todd + his office
about the situation.

1848 Donatary, depart site.
- prep. DESA

In Donatary

Location ORF Date 9/2/10
 Project / Client Doughter Test / EPA
 Doughterty

Plan for Day 1) Conduct step test on EW-1D. 2) Collect gw sample from EW-1D. 3) Empty truck to make room for collect.

Personnel on site: EDM: Doughterty, Robinson; LTD: Hitzelberger & Barnes.

Equipment in Use: VSI meter & water level indicator - All p. 5.

Level of Protection: Level D.

Weather: Sunny, hot 90's.

ATD 9/2/10

Location ORF Date 9/2/10
 Project / Client Doughter Test / EPA
 Doughterty

0600 Robinson & LTD start step test on EW-1D. Doughterty at hotel working on data.

0700 Check in w/ Frank Robinson - step test proceeding as planned.

0740 Prepare Schedule for Sustained yield test. Email to project team.

1000 Depart hotel for site

1152 At staging area. Picked up ice for samples, prepped trip blank & temp blank, prepped cooler for samples, prepped shipping paper work.

1155 Proceed to EW area.

- at EW area. Step 4 underway at 180 gpm.

- discuss treatment system flow rate issue w/ Butch. Told him Enter says they can handle 250 gpm.

- Need to know flow rate for.

- look for missing thumb drive - can't locate.

ATD 9/2/10

ORF

9/2/10

Aquifer Test / EPA

1237 Proceed to Staples to get
thumb drive, printer cable
& clear trash bags.

1330 Return to EW area.
Prepare ice for samples.

1400 Collect samples
EW-ID/S: total Mn &
Fe & VOCs and
EW-ID/S-F filtered Mn
& Fe.

Check pH on both metals

Samples - both < 2.

- Frank Robinson reports that
the 20,000 gallon tank at
the staging area has been
removed.

1440 At staging area
to prep. samples for shipment

1522 Frank Robinson checks
samples & signs COC. Doug
offsite to get ice.

1607 Doug reports depart staging
area to drop samples at FedEx.

1614 Gate secured.

Travis 9/2/10

ORF

9/2/10

Aquifer Test / EPA

1627 Samples EW-ID/S +
EW-ID/S-F + trip blanks
dropped at FedEx. Carbill Nu
8735 3385 4932.

1637 Return to EW area. Car is
bleeding across to area, wait for
car to move. Make phone calls.
1707 Spoke with Alan Hunter re
work next week. Spoke to M.
Valentine re CORA.

1710 Prep transducers on EW's
for weekend by capping in plastic
bags & securing w/ tape.

1720 Download & stop test
EW-ID 20100901. Setup
new test EW-ID 20100902
to start collecting data 10
min intervals at 1720.

1730 Download data from SUP-10
Weather, X-D System
Stop current log. Download
data. Setup new test to
collect data at 10 min
intervals. Battery 12.73V.

Travis 9/2/10

ORF

9/2/10

Project / Client

Aquifer Test / EPA

Notes by J. Dougherty

Memory work: 42%

Check status in AM to get
if data needs to be cleared for
weekend.

Leave Dan at SVP-10. Return to
staging area to unload truck.

Left Dougherty off site.

Summary of days activities.

- no tender demobilized from
site
- 24,000 gallon tank demobilized
from site
- Completed step test on EW-10
4 x 2 hr Steps @ 60, 100,
140 + 180 gpm.
- Collect / sample EW-10/S +
EW-10/S-F @ 1400, Shipped
DESA.
- Worked on scheduling personnel
for Pump test.

ORF, 9/2/10

Location

ORF

9/3/10

81

Project / Client

Aquifer Test / EPA

Notes by

J. Dougherty

Location ORF Date 9/3/10
 Project / Client Boulder Test / EPA
 Notes by DOUGHERTY

0800 At SVP-10. Hookup to MOSDAX
 to try to determine why data time
 stamp on data is shifted 3 hrs.

- Check MOSDAX display -
- Clock is reading correctly
- Check data stored in MOSDAX
 box. The time stamp on the
 data is correct. Therefore the
 +3 hour increment is being
 added to the data during
 transfer or subsequent post
 processing.

- Download data - all data
 from MOSDAX box.
- Battery Voltage: 12.72.
- Log off + Close up SVP-10
- Memory used - about 42%.

0850 Setup at SVP-5.

Battery 12.8 V.

Log on to MOSDAX.

Memory used 4.7%.

Logger time correct.

Stop logging, download data.

Log off, tear down SVP-5

DOUGHERTY

Location ORF Date 9/3/10
 Project / Client Boulder Test / EPA
 NOTES BY DOUGHERTY

Weather surface equipment.

Battery SVP-5 AA pulled.

- Call from Sean O - Cases ready
 + solvent pads.

0933 Done at SVP-5 - well
 secure. Proceed to staging
 area.

0946 At staging area to unload
 equipment.

1000 Done at staging area.

- Trailer. Trailer secure.
- Windows closed. Gate locked.
- Return to hotel to complete
 check out.

1100 Return to hotel, check email
 re: schedule, phone calls

1300 Depart site for Edison.

1430 Arrive Edison.

DOUGHERTY

Location OLKDate 8/23/10Project / Client LA/EPDExtraction Well Development

→ Sean O'Hare relinquishes log book from Frank Robinson and takes authorship.

06:45 → John Dougherty & Sean O'Hare arrive at staging area. Start unloading equipment from van into trailer.

07:00 → JD verifies that UTD is on-site setting up pumps / hosing on all 3 extraction wells and removing all drilling pipes.

07:30 → VS begins calibrating YSI model 6920, minirae & vme air monitoring units. SO has trouble calibrating La Motte 20-20 and informs Pine Environmental to send a new unit out by the end of the day.

08:30 → SO arrives at extraction well cluster 1, 2, & 3 at 400 Ring
 S O'H 8/23

Location OLKDate 8/23/10Project / Client RA/EPDExtraction Well Development

Road. UTD crew on site includes Brad Barnes and Butch Hitzelberger and Sean O'Rourke

09:00 → John Dougherty of CDM gives health & safety plan discussing slips, trips, & falls, wet surface and overhead hazards.

Weather → Over-cast w/ a strong wind. ~ 75°F
 Light rain on and off.

PPE → Level D Modified
 * John Dougherty and Mike Ehnert assist Westbay and Earth Data with lowering transducers down wells

12:30 → SO takes static water level readings from all three extraction wells.

EW-1D → 33.55'

EW-1I → 33.00'

EW-1S → 32.1'

S O'H 8/23/10

Location ORFDate 8/23/10Project / Client RA/CPAExtraction Well Development

12:56 → Butch of UTD starts pumping at all 3 extraction wells

13:12 → Water levels are taken from extraction wells.

EW-1D → 40.0' 39.87'

EW-1I → 36.38'

EW-1S → 37.30'

13:20 → UTD shuts off pumps at EW-1S and EW-1I to determine that ~ 200 gallons are pumping out of EW-1D.

13:22 → UTD shuts off pumps at EW-1D and EW-1S to determine EW-1I is pumping ~ 115 gallons per minute.

13:25 → UTD shuts off pumps at EW-1D and EW-1I to determine EW-1S is pumping at a rate of 110 gpm.

13:40 → SO takes another round of water levels from all 3 extraction wells.

8 0' 12 8/23/10

Location ORFDate 8/23/10Project / Client RA/CPAExtraction Well Development

EW-1D → 37.95'

EW-1I → 36.5'

EW-1S → 37.35'

13:43 → All pumps are shut off to allow water to re-enter formation.

13:55 → Pumps are turned back on. ~ 425 gallons are being purged in total from all 3 extraction wells per minute.

14:15 → SO checks water levels from 3 extraction wells.

EW-1D → 40.0' toe

EW-1I → 38.20' toe

EW-1S → 36.0' toe

14:26 → All pumps are shut down for 30 seconds and then put back on. This process is repeated to further tighten the sand pack.

14:40 → SO takes another round of water level

8 0' 12 8/23/10

Location ORF Date 8/23/10Project / Client RA/EPAExtraction Well Development

measurements from all 3 EW's
 Water level measurements are
 not taken. SO assists Butch
 H. of UTD by lowering
 transducers down each extr-
 action well.

15:22 → All 3 pumps are
 shut off.

15:35 → Pumps are turned
 back on. It is estimated
 that ~ 375 gallons are
 purged per minute from all
 3 extraction wells.

16:00 → SO takes a round
 of water level readings from
 all 3 extraction wells.

EW-1D → 39.30' TAC

EW-1I → 36.00' TAC

EW-1S → 36.9' TAC

16:40 → Another round of water
 level measurements are taken.

EW-1D → 40.0' TAC

EW-1I →

EW-1S → 37.35' TAC

8/23/10 8/23/10

Location ORF Date 8/23/10Project / Client RA/EPAExtraction Well Development

16:50 → All pumps are shut
 off and begin breaking
 equipment down.

17:20 → SO arrives back
 at staging area and labels
 bottleware for tomorrow's
 samples.

18:00 → SO & JD raise
 transducers in all 3 extr-
 action wells since they
 can handle up to 30 psi,
 ~ 60'.

18:20 → SO & JD leave
 site en route back to hotel.
 SO will meet UTD at
 extraction well cluster
 tomorrow at 7 AM.

8/23/10

Location ORF Date 8/24/10Project / Client RA / EPA

06:40 → SO arrives at staging area to start calibrate equipment. YSI 6920 is calibrated and minime 3000. Please see results on calibration sheets

07:20 → SO picks up ice for today's samples and drives to extraction wells cluster.

07:30 → John Dougherty gives health & safety meeting discussing slips, trips & falls; wet surface, and overhead hazards.

PPE → Level D Modified Weather → Over-cast, raining ~ 75°F with a moderate wind.

08:15 → UTD begins pumping all 3 extraction wells. SO sets up a sampling station underneath the pop-up tent.

09:15 → UTD shuts off
SO - 8/2

Location ORF Date 8/24/10Project / Client RA / EPA

Extraction Well Development

all 3 pumps and connects check valves.

UTD crew consists of: Brad Barnes; Butch Hitzelberger; Union worker → Sam O'Rourke.

10:00 → Begin pumping EW-1S for final development stage. UTD will record sand content while CDM will record water quality parameters. EW-1S is pumping at a rate of 75 gpm. For the first 5 minutes. After the 5 minutes, the water table adjusted and the rate went down to 72 gpm. UTD set up the rozzle sampler at 1/2 gallon a minute and began observing the sand content.

10:30 → SO begins recording water quality
SO - 8/2

Location ORFDate 8/24/10Project / Client RA/EPAExtraction Well Development

parameters on development sheets.

12:00 → EW-1S is fully developed after purging for 2 hours.

12:05 → SO collects sample EW-1S/D for TCL VOCs and total iron / manganese. SO collects sample EW-1S/D-F for filtered iron and manganese. SO collects duplicate samples for the following above.

Please refer to sample log at end of log book today. All filtered samples were collected using a .45 micron filter.

12:30 → Start pumping at EW-1I at a rate of 72 gpm.

12:50 → SO hooks up YSI 6920 and takes first set of water quality parameters. Refer to development

JSK 8/24/10

Location ORFDate 8/24/10Project / Client RA/EPAExtraction Well Development

sheet for specific readings.

14:30 → Well is developed. Final sand content is measured to be ~ 0.05 ml.

14:40 → SO collects sample EW-1I/D for TCL VOC and total iron and manganese. SO collects sample EW-1I/D-F for filtered iron and manganese.

15:00 → Start purging EW-1D at ~~72~~ a rate of 157 gpm. SO connects YSI to port and is ready to take water quality parameters.

15:15 → Record first set of water quality parameters. Refer to development sheets.

17:00 → EW-1D is fully developed.

17:10 → SO collects sample EW-1D/D for TCL VOCs and total iron & manganese and sample EW-1D/D-F

JSK 8/24/10

Location ORFDate 8/24/10Project / Client RA/EPAExtraction Well Development

For filtered iron & manganese

17:15 → SO loads van with equipment and heads back to trailer to pack samples and send out via FedEx.

Sample Summary

EW-1S/D → VOC, Total Fe/Mn

EW-1S/D-F → Filtered Fe/Mn

EW-1S/D-DUP → VOC, Total Fe/Mn

EW-1S/D-F-DUP → Filtered Fe/Mn

EW-1I/D → VOC, Total Fe/Mn

EW-1I/D-F → Filtered Fe/Mn

EW-1D/D → VOC, Total Fe/Mn

EW-1D/D-F → Filtered Fe/Mn

SO 16
8/24/10

SO 16 8/24/10

Location ORFDate 8/24/10Project / Client RA/EPAExtraction Well Development

07:00 → SO arrives at staging area. UTD is on site decommissioning drill rods and trucks. UTD onsite: Brink Barnes & Butch Hitzelberger. Union contract is SSM O'Rourke

Weather → Overcast, light to moderate wind ~ 75°F light rain

PPE → Level D Modified

07:30 → SO gives health & safety meeting to discuss slips/trips/falls, overhead hazards & staying alert at all times

08:00 → SO takes static water level measurements:

EW-1S → 32.3'

EW-1I → 33.1'

EW-1D → 33.7'

08:20 → UTD removes some remaining items from extraction well cluster

Extraction Well Development

to staging area behind Macy's
SO consults with John
Dougherty and is informed to
put cones in front of west-
bay well SVP-03 to
put new balls on lid so
run-off water cannot easily
penetrate into well.

09:30 → SO meets John
Dougherty & George Seidman
of Earth Data at SVP-03
John Dougherty instructs
SO on procedure of turning
SO 8/25/10 transducer and
closing & opening port down
westbay well to confirm
that only 1 port is open
and all other ports are
closed

10:15 → SO & George
Seidman drive over to SVP-2
and turn off transducer
after taking the depth
to water.

SO 8/25/10

Extraction Well Development

10:17 → George from Earth
Data obtains a water
level at SVP-2 which
reads 32.85'. After
reading, westbay tool is lowe-
red to ~ 333'. A measurement is
taken from the top of casing to
the handle bar which is 2.82'.

11: George lowers tool and closes port.
Distance from top of casing to handlebar
is 2.67'. George lowers pry bar
to purge water. Depth to water is now 33.8'.
Open port again. Lower transducer. Pressure 6.78
Temp 19.15
Depth 35.67

11:30 → SO picks up van
with equipment and heads
back to trailer. SO
confirms with Gene Stricker
of Sea-Coast Environmental
that frag tank will ~~not~~
be picked up early next
week. SO relays information
over to Ali Rahmani of EDN.
12:00 → SO begins making
bottle sets for both

SO 8/25/10

Location ORFDate 8/25/10Project / Client RA/EPAExtraction Well Development

the step test and the aquifer test

13:00 → SO & JD drive over to pump facility off Clinton Road to determine if water levels can be taken. It is confirmed that water levels can be taken from airline pipe.

However, the second pump-house does not allow for water levels to be taken from the airline pipe. JD leaves site to meet with

George Seidman at SUP-05. Butch Hitzelberger of UTD arrives at pump house w/ flashlight and assists SO in finding an opening to take a water level reading from. A representative from the water department arrives and shows us the vent to

SO 1/2 8/25/10

Location ORFDate 8/25/10Project / Client RA/EPAExtraction Well Development

screw off to take our reading from. In addition to the vent, there is a gauge which states where the water level is

14:25 → SO arrives back at trailer and finishes up labeling bottle-wave sets.

15:20 → SO & Butch Hitzelberger check MW's 01S, 01, 02S, 02I, 03S and 03I to verify that well protectors are keeping water out of the wells.

16:00 → SO observes little to no water in all the wells. SO & JD organize the trailer to set up for the step test.

17:35 → SO & JD pick up traffic cones surrounding wells and replace bolts on monitoring wells.

18:30 → SO & JD leave

SO 1/2 8/25/10

Location ORFDate 8/25/10Project / Client RA/EPAExtraction Well Development

site en route to hotel.

* UTD is off site at 16:00

8/25/10

8/25/10

Location ORFDate 8/26/10Project / Client RA/EPAExtraction Well Development

07:00 → SO & JD are on site. Butch Hitzelberger & Brad Barnes of UTD are on-site packing up truck. Sean O'Rourke is on site assisting.

Weather → Sunny, light wind ~ 80°F

PPE → Level D Modified

07:30 → JD of COM gives health & safety meeting. Discusses slips/trips/falls, staying alert and watching for overhead hazards.

07:45 → SO & JD leave staying area to replace monitoring well bolts at SVP-3 and to complete some last minute tasks.

09:00 → Brad Barnes leaves site and drives mud rotary rig back to ship. Butch H. and Sean

8/26/10

Location ORF Date 8/26/10Project / Client RA/EPAExtraction Well Development

O. begin power washing
berthrite off ~~extra~~ rock
near extraction well area
and top off EW-4S. UTD
will place sand bags on top
of SUP-2 and SUP-4.

10:30 → JD attempts to
connect to SUP-10 but
fails. JD calls George
Seidman who does not have
an answer. JD will worry
about it later.

11:00 → SO & JD go
over F2L and sampling
procedure for the yield test
and the step test.

12:00 → Butch H. leaves
site along with Sen O'Rourke.

UTD will be onsite on
Monday at 9 AM. SO &
JD continue organizing.

15:00 → SO leaves site
en route to CDM ware-
house in Edison, NJ to

~~SO~~ 8/26/10

Location ORF Date 8/26/10Project / Client RA/EPAExtraction Well Development

drop off supplies and
rental vehicle.

SO
8/26/10

~~SO~~ 8/26/10

Location ORF

mon.
Date 8/30/10

Project / Client RA/EPA

Water levels / Setting up for step test

0550- E. Robinson at Woodbury office doing
Paperwork + copying logs

0630- At Staging area

Clear 68° winds calm

0735- John Dagherty (Con) on site

0800- H&S tailgate meeting

1025- Uni-Tech on site

Butch Hitzelberger + Brad Burner,

1035- Tailgate H&S meeting

1200- Have been collecting water level
data w/ J.D. since 0800 this morning.1530- At Garden City wells w/ Butch
collecting water level data from the
2 production wells

1615- leaving the site

8/30/10
FRLH

Location ORF

mon.
Date 9/13/10

Project / Client RA/EPA

Chlorining EW's

0635- E. Robinson on site

Light Rain, 62°, wind light + variable

0705- John Dagherty (Con) on site

0715- Sean O'Hare on site: both will
be pulling transducers out of wells today,
- Butch A. (Uni-Tech) on site

0720- Tailgate H&S meeting

0745- John + Sean pulling transducers
from the Extraction wells.0800- Uni-Tech calculation for chlorinating
extraction wells:EW-1S: Depth 270' 4.16 lbs mixed
with 2,500 gallons of waterEW-1T: Depth 360' 5.72 lbs with
3,400 gallons of waterEW-1O: Depth 415' 6.68 lbs mixed with
4,000 gallons of water.Chlorine is calcium hypochlorite - 65%
Mixture will be pumped down the
pipe w/ pump attached at the bottom, all
at ~ 150' down.

0820- Data logger out of EW's.

0835- Removed check-valves from
EW's.

FRL 9/13/10

**ATTACHMENT 3
CHAIN OF CUSTODY**



USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case:

Client No:

R

Region: 2 Project Code: Account Code: CERCLIS ID: NYSFN0204234 Spill ID: PE Site Name/State: Old Roosevelt Field/NY Project Leader: Frank Robinson Action: Remedial Action Sampling Co: CDM	Date Shipped: 8/24/2010 Carrier Name: FedEx Airbill: 8655-6539-2937 Shipped to: DESA Laboratories/USEPA 2890 Woodbridge Avenue Bldg. 209 Edison NJ 08837 (732) 906-6886	Chain of Custody Record <table border="1"> <tr> <th>Relinquished By</th> <th>(Date / Time)</th> <th>Received By</th> <th>(Date / Time)</th> </tr> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> </table>	Relinquished By	(Date / Time)	Received By	(Date / Time)	1				2				3				4				Sampler Signature:
Relinquished By	(Date / Time)	Received By	(Date / Time)																				
1																							
2																							
3																							
4																							

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
EW-1D/D	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-1D/D	S: 8/24/2010	17:10	--
EW-1D/D-F	Groundwater/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-1D/D-F	S: 8/24/2010	17:10	--
EW-1I/D	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-1I/D	S: 8/24/2010	14:40	--
EW-1I/D-F	Groundwater/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-1I/D-F	S: 8/24/2010	14:40	--
EW-1S/D	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-1S/D	S: 8/24/2010	12:05	--
EW-1S/D-DUP P	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-1S/D-DUP	S: 8/24/2010	12:05	Field Duplicate
EW-1S/D-F	Groundwater/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-1S/D-F	S: 8/24/2010	12:05	--
EW-1S/D-F-D UP	Groundwater/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-1S/D-F-DUP	S: 8/24/2010	12:05	Field Duplicate
TB082410	Trip Blank/ Frank Robinson	L/G	TCL-VOC (21) (HCL) (3)		TB082410	S: 8/24/2010	7:00	Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: EW-1S/D-DUP, EW-1S/D-F-DUP	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
F-Fe/Mn = Filtered Iron & Manganese, Fe/Mn = Total Iron & Manganese, TCL-VOC = SOMO1.2 TCL VOC			

TR Number: 2-043013577-082410-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

REGION COPY



USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case:

R

Client No:

Region: 2	Date Shipped: 8/31/2010	Chain of Custody Record	Sampler Signature:
Project Code:	Carrier Name: FedEx		
Account Code:	Airbill: 873533854965		
CERCLIS ID: NYSFN0204234	Shipped to: DESA		
Spill ID: PE	Laboratories/USEPA		
Site Name/State: Old Roosevelt Field/NY	2890 Woodbridge Avenue	Relinquished By (Date / Time)	Received By (Date / Time)
Project Leader: Frank Robinson	Building # 209	1	
Action: Remedial Action	Edison NJ 08837	2.	
Sampling Co: CDM	(732) 906-6886	3.	
		4.	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
EW-1S/S	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (21)	(4)	EW-1S/S	S: 8/31/2010	16:00	--
EW-1S/S-F	Groundwater/ Frank Robinson	L/G	F-Fe/Mn (21)	(HNO3) (1)	EW-1S/S-F	S: 8/31/2010	16:00	--
TB083110	Trip Blank/ Frank Robinson	L/G	TCL-VOC (21)	(HCL) (3)	TB083110	S: 8/31/2010	7:00	Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
F-Fe/Mn = Filtered Iron & Manganese, Fe/Mn = Total Iron & Manganese, TCL-VOC = SOM01.2 TCL VOC			

TR Number: 2-334176893-083110-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

REGION COPY



USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case:

R

Client No:

Region: 2	Date Shipped: 9/1/2010	Chain of Custody Record	Sampler Signature:
Project Code:	Carrier Name: FedEx		
Account Code:	Airbill: 873533854954		
CERCLIS ID: NYSFN0204234	Shipped to: DESA		
Spill ID: PE	Laboratories/USEPA		
Site Name/State: Old Roosevelt Field/NY	2890 Woodbridge Avenue	Relinquished By (Date / Time)	Received By (Date / Time)
Project Leader: Frank Robinson	Building # 209	1	
Action: Remedial Action	Edison NJ 08837	2.	
Sampling Co: CDM	(732) 906-6886	3.	
		4.	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
EW-11/S	Groundwater/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-11/S	S: 9/1/2010 16:00	--
EW-11/S-F	Ground Water/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-11/S-F	S: 9/1/2010 16:00	--
TB090110	Trip Blank/ Frank Robinson	L/G	TCL-VOC (21) (HCL) (3)		TB090110	S: 9/1/2010 7:00	Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
F-Fe/Mn = Filtered Iron & Manganese, Fe/Mn = Total Iron & Manganese, TCL-VOC = SOM01.2 TCL VOC			

TR Number: 2-334176893-090110-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

REGION COPY



USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case:

R

Client No:

Region: 2	Date Shipped: 9/2/2010	Chain of Custody Record	Sampler Signature:
Project Code: ,	Carrier Name: FedEx		
Account Code:	Airbill: 873533854932		
CERCLIS ID: NYSFN0204234	Shipped to: DESA		
Spill ID: PE	Laboratories/USEPA		
Site Name/State: Old Roosevelt Field/NY	2890 Woodbridge Avenue	Relinquished By (Date / Time)	Received By (Date / Time)
Project Leader: Frank Robinson	Building # 209	1	
Action: Remedial Action	Edison NJ 08837	2.	
Sampling Co: CDM	(732) 906-6886	3.	
		4.	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
EW-1D/S	Ground Water/ Frank Robinson	L/G	Fe/Mn (21), TCL-VOC (HCL), (HNO3) (4) (21)		EW-1D/S	S: 9/2/2010	14:00	--
EW-1D/S-F	Ground Water/ Frank Robinson	L/G	F-Fe/Mn (21) (HNO3) (1)		EW-1D/S-F	S: 9/2/2010	14:00	--
TB090210	Trip Blank/ Frank Robinson	L/G	TCL-VOC (21) (HCL) (3)		TB090210	S: 9/2/2010	7:00	Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
F-Fe/Mn = Filtered Iron & Manganese, Fe/Mn = Total Iron & Manganese, TCL-VOC = SOM01.2 TCL VOC			

TR Number: 2-334176893-090210-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

REGION COPY

ATTACHMENT 4
WELL DEVELOPMENT LOG

TD - 280'
DTW - 32.9'
water - 240'

Date: 8/24/10

Total Depth: 270

Pumping Rate: 72 gpm

Vol. Purged: 8,640

File:DATALOG.XLS

Camp Dresser & McKee Field Log

Site: Old Roosevelt Field

Date: 8/24/10

E W#: 11

Well Diameter: 8"

Total Depth: 340'

DTW: 34.75'

3X Vol: ~~6,162,380~~

Pumping Rate: 72 gpm

Start Purge: 12:30

End Purge: 14:30

Vol. Purged: ~~8,640~~
8,640

Sampling Time: 14:40

[illegible]

Camp Dresser & McKee
Field Log

Site: Old Roosevelt Field

Date: 8/24/19

EW#: 10

Well Diameter: 8"

Total Depth: 410

DTW: 30.85'

3X Vol: 2,940

Pumping Rate: 157 gpm

Start Purge: 15:00

End Purge: 17:00

Vol. Purged: 18,840

Sampling Time: 17:10

[illegible]

ATTACHMENT 5
PHOTO LOG

PHOTOLOG

SITE NAME: OLD ROOSEVELT FIELD SITE

CAMERA # Olympus D-560

Photograph #	Description	Date/Time	Photographer
P1010164.jpg	Moving drilling rods from extraction well cluster	08-23-10	Sean O'Hare
P1010165.jpg	Loading drilling rods onto support truck	08-23-10	Sean O'Hare

PHOTOLOG

SITE NAME: OLD ROOSEVELT FIELD SITE

CAMERA # Olympus D-560

Photograph #	Description	Date/Time	Photographer
P1010167.jpg	Adjusting flow rate to ½ gpm on the sand content sampler	08-24-10	Sean O'Hare
P1010168.jpg	Sand content sampler at EW-1S	08-24-10	Sean O'Hare
P1010169.jpg	Sand content sample at EW-1S	08-24-10	Sean O'Hare
P1010170.jpg	A total of 0.05 mg/L deposited into vial from EW-1S	08-24-10	Sean O'Hare
P1010171.jpg	EW-1I	08-24-10	Sean O'Hare
P1010172.jpg	YSI is connected to the sampling port for a continuous flow to collect water quality parameters	08-24-10	Sean O'Hare
P1010173.jpg	Sand content sample at EW-1I	08-24-10	Sean O'Hare
P1010174.jpg	A total of 0.05 mg/L deposited into vial from EW-1I	08-24-10	Sean O'Hare
P1010175.jpg	Collecting samples at EW-1I	08-24-10	Sean O'Hare
P1010176.jpg	A total of 0.00 mg/L deposited into vial from EW-1D	08-24-10	Sean O'Hare

PHOTOLOG

SITE NAME: OLD ROOSEVELT FIELD SITE

CAMERA # Olympus D-560

Photograph #	Description	Date/Time	Photographer
P1010178.jpg	Tripod set up at SVP-2 to verify open port	08-25-10	Sean O'Hare
P1010179.jpg	Lowering westbay tool down SVP-2	08-25-10	Sean O'Hare
P1010180.jpg	Westbay logging equipment inside lock-box at SVP-5	08-25-10	Sean O'Hare
P1010181.jpg	Sand content samples from all 3 extraction wells collected on August 24, 2010	08-25-10	Sean O'Hare

PHOTOS 08-23-10



P1010164.jpg

Moving drilling rods from extraction well cluster



P1010165.jpg

Loading drilling rods onto support truck

PHOTOS 08-24-10



P1010167.jpg

Adjusting flow rate to $\frac{1}{2}$ gpm on the sand content sampler



P1010168.jpg

Sand content sampler at EW-1S



P1010169.jpg

Sand content sample at EW-1S



P1010170.jpg

A total of 0.05 mg/L deposited into vial from EW-1S



P1010171.jpg

EW-11



P1010172.jpg

YSI is connected to the sampling port for a continuous flow to collect



P1010173.jpg

Sand content sample at EW-1I



P1010174.jpg

A total of 0.05 mg/L deposited into vial from EW-1I



P1010175.jpg

Collecting samples at EW-1I



P1010176.jpg

A total of 0.00 mg/L deposited into vial from EW-1D



P1010178-Tripod set up at SVP-2 to verify open port



P1010179- Lowering westbay tool down SVP-2



P1010180- Westbay logging equipment inside lock-box at SVP-5



P1010181- Sand content samples from all 3 extraction wells collected on August 24, 2010

ATTACHMENT 6
FIELD CHANGE REQUEST



125 Maiden Lane, 5th Floor
New York, New York 10038
tel: 212 785-9123
fax: 212 785-6114

September 7, 2010

William Sy
EPA QA Officer
U.S. Environmental Protection Agency
2890 Woodbridge Avenue
Edison, New Jersey 08837

PROJECT: RAC 2 Contract No.: EP-W-09-002
Work Assignment No.: 023-RARA-02PE

DOC CONTROL NO.: 3320-023-00558

SUBJECT: Field Change Notification Form #RA-02
Change in Groundwater Sampling during Aquifer Testing
Old Roosevelt Field Contaminated Groundwater Area Site
Remedial Action
Garden City, New York

Dear Mr. Sy:

CDM Federal Programs Corporation (CDM) is submitting the following documentation of changes to the Aquifer Testing activities at the Old Roosevelt Field Contaminated Groundwater Area Site in Garden City, New York titled: #RA-02: *Change in Groundwater Sampling during Aquifer Testing*:

If you have any questions regarding this submittal, please contact me at (212) 377-4536 or Ms. Grace Chen at (732) 590-4626.

Very truly yours,

CDM FEDERAL PROGRAMS CORPORATION

Jeniffer Oxford
Regional QA Coordinator

Enclosure

cc: H. Eng, EPA Region 2 (Letter Only)
T. Mathew, CDM
A. Rahmani, CDM
Document Control

C. Kwan, EPA Region 2
J. Litwin, CDM
G. Chen, CDM

**Old Roosevelt Field Contaminated Groundwater Area Site
Remedial Action
Garden City, New York**

Field Change Request

Date: August 26, 2010

Request No.: RA-02

FCR Title: Changes of Groundwater Sampling during Aquifer Testing

Description:

This Field Change Request includes three changes: (1) addition of the collection of a groundwater sample from the sampling port at the common header (which combines flows from all three extraction wells) during the yield test, (2) changes to the list of groundwater parameters to be analyzed during the yield test, and (3) changes to the collection of matrix spike/matrix spike duplicate samples (MS/MSD).

Reason for Deviation:

- (1) The Final RA QAPP specified collection of groundwater samples from the sample port of each extraction well. Even though the groundwater quality parameters can be calculated from the groundwater parameter and flow rates from each well, it would be more straightforward to use the results from a sample collected from the combined flow. Therefore, during the yield test, two groundwater samples will be collected from the common header, one between the 2nd and the 8th hours of the yield test; one at the end of the yield test.
- (2) The purpose of analyzing VOCs, total and dissolved iron and manganese is to estimate the influent groundwater quality for treatment. Additional wet chemistry parameters, such as nitrate/nitrite, TSS, TDS, alkalinity, hardness etc. are for information only. Therefore, those wet chemistry parameters will only be analyzed for the samples from combined header.
- (3) Communication with DESA indicated that MS/MSD for filtered TAL metals is not necessary but that an MS/MSD should be included for the nitrate/nitrite analysis.

Recommended/Modification:

The table below provides details of the sample and analysis changes.

Sample ID	Analyses	Notes
EW-1S/Y-A	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1S
EW-1S/Y-AF	Filtered TAL metals	
EW-1I/Y-A	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1I
EW-1I/Y-AF	Filtered TAL metals	
EW-1D/Y-A	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1D
EW-1D/Y-AF	Filtered TAL metals	
EW-Total-A	TCL VOCs, total TAL metals with mercury and cyanide, TSS, TDS, alkalinity, hardness, nitrate/nitrite, oil and grease	From the common header



Sample ID	Analyses	Notes
EW-Total-AF	Filtered TAL metals	From the common header
EW-1S/Y-B	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1S
EW-1S/Y-BF	Filtered TAL metals	
EW-1I/Y-B	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1I
EW-1I/Y-BF	Filtered TAL metals	
EW-1D/Y-B	TCL VOCs, total TAL metals with mercury and cyanide	From sample port of EW-1D
EW-1D/Y-BF	Filtered TAL metals	
EW-Total-B	TCL VOCs, total TAL metals with mercury and cyanide, TSS, TDS, alkalinity, hardness, nitrate/nitrite, oil and grease	From the common header
EW-Total-BF	Filtered TAL metals	

MS/MSD analysis will be performed on samples collected for TAL metals analysis, cyanide, and oil and grease as specified in the QAPP. An MS/MSD analysis will not be specified for filtered TAL metals (the QAPP included an MS/MSD for filtered metals). An MS/MSD will be added for nitrate/nitrite analysis.

Impact on Data Quality Objectives:

These changes will better achieve the data quality objectives by obtaining a more complete data set for the project.

RAC 2 Contract No.: EP-W-09-002

Work Assignment No.: 023-RARA-02PE

Signatures:

Grace Chen, CDM Design Engineer

Thomas Mathew, CDM Project Manager

cc:

Caroline Kwan, EPA Remedial Project Manager

Ali Rahmani, CDM Project Engineer

Jeniffer Oxford, CDM QA Coordinator

Old Roosevelt Field RA Field Team